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OM protein - protein search, using sw model

Run on: April 19, 2004, 12:38:32 ; Search time 14 Seconds
(without alignments)
55,314 Million cell updates/sec

Title: US-09-308-027A-142

Perfect score: 76

Sequence: 1 LKLSGKIASCLNDN 15

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

Issued Patents AA: *

1: /cgn2_6/ptodata/2/1aa/5A_COMB.pep:*
2: /cgn2_6/ptodata/2/1aa/5B_COMB.pep:*
3: /cgn2_6/ptodata/2/1aa/6A_COMB.pep:*
4: /cgn2_6/ptodata/2/1aa/6B_COMB.pep:*
5: /cgn2_6/ptodata/2/1aa/PTCUS_COMB.pep:*
6: /cgn2_6/ptodata/2/1aa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|----|----------------------|
| 1 | 76 | 100.0 | 127 | 3 | US-08-467-023-190 |
| 2 | 76 | 100.0 | 514 | 3 | US-08-467-023-134 |
| 3 | 45 | 59.2 | 224 | 3 | US-08-467-023-192 |
| 4 | 42 | 55.3 | 159 | 4 | US-09-252-991A-18982 |
| 5 | 42 | 55.3 | 740 | 4 | US-09-252-991A-21187 |
| 6 | 41 | 53.9 | 506 | 4 | US-09-107-532A-5363 |
| 7 | 39 | 51.3 | 104 | 4 | US-09-148-545-165 |
| 8 | 39 | 51.3 | 638 | 4 | US-09-228-986-74 |
| 9 | 38 | 50.0 | 437 | 4 | US-09-934-901-16 |
| 10 | 38 | 50.0 | 492 | 4 | US-09-107-532A-6385 |
| 11 | 38 | 50.0 | 505 | 3 | US-08-627-907A-2 |
| 12 | 37 | 48.7 | 190 | 4 | US-09-328-352-6154 |
| 13 | 37 | 48.7 | 336 | 4 | US-09-533-023-58 |
| 14 | 37 | 48.7 | 353 | 4 | US-09-489-039A-7347 |
| 15 | 37 | 48.7 | 368 | 4 | US-09-614-912-38 |
| 16 | 37 | 48.7 | 505 | 3 | US-08-627-907A-4 |
| 17 | 37 | 48.7 | 522 | 4 | US-09-252-991A-26377 |
| 18 | 37 | 48.7 | 580 | 1 | US-08-420-235B-15 |
| 19 | 37 | 48.7 | 580 | 3 | US-08-793-624-15 |
| 20 | 37 | 48.7 | 580 | 5 | PTC-US95-10194-15 |
| 21 | 37 | 48.7 | 862 | 4 | US-09-328-352-5527 |
| 22 | 36 | 47.4 | 76 | 4 | US-09-134-001C-4377 |
| 23 | 36 | 47.4 | 156 | 4 | US-09-543-681A-7593 |
| 24 | 36 | 47.4 | 211 | 4 | US-09-493-914-3 |
| 25 | 36 | 47.4 | 289 | 2 | US-08-741-437-1 |
| 26 | 36 | 47.4 | 289 | 2 | US-09-134-593-1 |
| 27 | 36 | 47.4 | 410 | 1 | US-08-073-807A-16 |

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|----|----|------|------|---|---------------------|
| 28 | 36 | 47.4 | 538 | 1 | US-08-258-261B-2 |
| 29 | 36 | 47.4 | 538 | 1 | US-08-456-837-2 |
| 30 | 36 | 47.4 | 538 | 1 | US-08-457-342-2 |
| 31 | 36 | 47.4 | 538 | 1 | US-08-457-646A-2 |
| 32 | 36 | 47.4 | 538 | 1 | US-08-458-076A-2 |
| 33 | 36 | 47.4 | 538 | 1 | US-08-457-335A-2 |
| 34 | 36 | 47.4 | 538 | 2 | US-08-729-214-24 |
| 35 | 36 | 47.4 | 538 | 2 | US-08-729-214-24 |
| 36 | 36 | 47.4 | 538 | 3 | US-09-028-934-2 |
| 37 | 36 | 47.4 | 538 | 3 | US-09-028-934-24 |
| 38 | 36 | 47.4 | 571 | 4 | US-09-149-476-481 |
| 39 | 36 | 47.4 | 719 | 4 | US-09-107-532A-5592 |
| 40 | 36 | 47.4 | 2182 | 4 | US-08-487-826B-16 |
| 41 | 35 | 46.1 | 133 | 4 | US-09-328-352-5041 |
| 42 | 35 | 46.1 | 202 | 4 | US-09-205-258-344 |
| 43 | 35 | 46.1 | 245 | 4 | US-09-328-352-6357 |
| 44 | 35 | 46.1 | 289 | 2 | US-08-741-437-4 |
| 45 | 35 | 46.1 | 289 | 2 | US-09-134-593-4 |

ALIGNMENTS

RESULT 1
US-08-467-023-190
; Sequence 190, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 190:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 127 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal

US-08-467-023-190

Query Match 100.0%; Score 76; DB 3; Length 127;
Best Local Similarity 100.0%; Pred. No. 1.7e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LKLTSGKIASCLNDN 15
DB 13 LKLTSGKIASCLNDN 27

RESULT 2

US-08-467-023-134
; Sequence 134, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 134:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 514 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-467-023-134

Query Match 100.0%; Score 76; DB 3; Length 514;
Best Local Similarity 100.0%; Pred. No. 8e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LKLTSGKIASCLNDN 15
DB 400 LKLTSGKIASCLNDN 414

RESULT 3

US-08-467-023-192

; Sequence 192, Application US/08467023
; Patent No. 6090386

; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 192:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 24 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-192

Query Match 59.2%; Score 45; DB 3; Length 24;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LKLTSGKIAS 10
DB 15 LKLTSGKIAS 24

RESULT 4

US-09-252-991A-18982
; Sequence 18982, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190

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; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 18962
; LENGTH: 159
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-18982

Query Match 55.3%; Score 42; DB 4; Length 159;
Best Local Similarity 60.0%; Pred. No. 3.8;
Matches 9; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 1 KLTSGKIASCLNDN 15
    |||:|||
    28 KLTSSGCFSLCKKN 42

RESULT 5
US-09-252-991A-21187
; Sequence 21187, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 21187
; LENGTH: 740
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-21187

Query Match 55.3%; Score 42; DB 4; Length 740;
Best Local Similarity 71.4%; Pred. No. 21;
Matches 10; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 KLTSGKIASCLNDN 15
    |||:|||
    431 KLTSGKIAHLAPN 444

Db

RESULT 6
US-09-107-532A-5363
; Sequence 5363, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; TITLE OF INVENTION: ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 7310
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,532A
; FILING DATE: 30-Jun-1998
; PRIOR APPLICATION DATA:

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[illegible]


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; EARLIER APPLICATION NUMBER: 60/056,875
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,862
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,887
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,908
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/048,964
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/057,650
; EARLIER FILING DATE: 1997-09-05
; EARLIER APPLICATION NUMBER: 60/056,884
; EARLIER FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 280
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 165
; LENGTH: 104

Query Match      51.3%; Score 39; DB 4; Length 104;
Best Local Similarity 66.7%; Pred. NO. 8.4;
Matches 8; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 LKLTSGKIASCL 12
   :|||:|||||
DB 13 LQKTGKIATCL 24
   :|||:|||||

RESULT 8
US-09-228-986-74
; Sequence 74, Application US/09228986
; Patent No. 6359198
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Niels
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signalling
; FILE REFERENCE: 11000/1020
; CURRENT APPLICATION NUMBER: US/09/228,986
; CURRENT FILING DATE: 1999-01-12
; NUMBER OF SEQ ID NOS: 130
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 74
; LENGTH: 638
; TYPE: PRT
; ORGANISM: Pinus radiata
US-09-228-986-74

Query Match      51.3%; Score 39; DB 4; Length 638;
Best Local Similarity 46.2%; Pred. NO. 64;
Matches 6; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 3 LTSGKIASCLNDN 15
   :|||:|||||
DB 392 MPNGSVASCLRDH 404
   :|||:|||||

RESULT 9
US-09-934-901-16
; Sequence 16, Application US/09934901
; Patent No. 6555353
; GENERAL INFORMATION:
; APPLICANT: Koffas, Mattheos
; APPLICANT: Odum, J. Martin
; APPLICANT: No. 6555353ton, Kelley C.
; APPLICANT: Ye, Rick
; TITLE OF INVENTION: DENITRIFYING METHANOTROPHIC BACTERIAL STRAIN
; FILE REFERENCE: CL1619 US NA
; CURRENT APPLICATION NUMBER: US/09/934,901
; CURRENT FILING DATE: 2001-08-22
; PRIOR APPLICATION NUMBER: 60/229,906
; PRIOR FILING DATE: September 1, 2000
; NUMBER OF SEQ ID NOS: 20

; SOFTWARE: Microsoft Office 97
; SEQ ID NO 16
; LENGTH: 437
; TYPE: PRT
; ORGANISM: METHYLOMONAS SP.
US-09-934-901-16

Query Match      50.0%; Score 38; DB 4; Length 437;
Best Local Similarity 63.6%; Pred. NO. 64;
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 3 LTSGKIASCLN 13
   :|||:|||||
DB 38 LTAGGLAPCLN 48
   :|||:|||||

RESULT 10
US-09-107-532A-6385
; Sequence 6385, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 7310
; CORRESPONDENCE ADDRESS:
; ADDRESSER: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,532A
; FILING DATE: 30-Jun-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/085,598
; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 60/051571
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Ariniello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: STC-012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 6385:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 492 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (B) LOCATION 1...492
; SEQUENCE DESCRIPTION: SEQ ID NO: 6385:
US-09-107-532A-6385

Query Match      50.0%; Score 38; DB 4; Length 492;
Best Local Similarity 53.8%; Pred. NO. 73;
Matches 7; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 3 LTSGKIASCLNDN 15
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Db 369 VSSGAIARCVDN 381

RESULT 11
US-08-627-907A-2
; Sequence 2, Application US/08627907A
; Patent No. 6060302
; GENERAL INFORMATION:
; APPLICANT: HIRANO, Naoto
; APPLICANT: HIRAI, Hisamaru
; TITLE OF INVENTION: HUMAN PHOSPHOLIPASE C-ALPHA AND DNA
; TITLE OF INVENTION: SEQUENCE ENCODING THE SAME
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: C/O FISH & NEAVE
; STREET: 1251 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10020
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/627,907A
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 5-238402
; FILING DATE: 24-SEP-1993
; PRIOR APPLICATION DATA: PCT/JP94/01572
; APPLICATION NUMBER: 22-SEP-1994
; FILING DATE: 22-SEP-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: HALEY Jr., James F.
; REGISTRATION NUMBER: 27,794
; REFERENCE/DOCKET NUMBER: SHGN-10
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 596-3000
; TELEFAX: (212) 596-9090
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 505 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-627-907A-2

Query Match 50.0%; Score 38; DB 3; Length 505;
Best Local Similarity 50.0%; Pred. No. 75;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 2 KLTSGKIASCLNDN 15
|:|||||:|

Db 226 KMTSGKIKFKIQEN 239

RESULT 12
US-09-328-352-6154
; Sequence 6154, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: GTC99-03PA
; CURRENT APPLICATION NUMBER: US/09/328,352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 6154
; LENGTH: 190

TYPE: PRT
; ORGANISM: Acinetobacter baumannii
US-09-328-352-6154

Query Match 48.7%; Score 37; DB 4; Length 190;
Best Local Similarity 50.0%; Pred. No. 38;
Matches 6; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 4 TSGKIASCLNDN 15
|:|||||:|

Db 164 TSDVSSCMNN 175

RESULT 13
US-09-533-029-58
; Sequence 58, Application US/09533029
; Patent No. 6664446
; GENERAL INFORMATION:
; APPLICANT: Heard, Jacqueline
; APPLICANT: Broun, Pierre
; APPLICANT: Riechmann, Jose-Luis
; APPLICANT: Keddle, James
; APPLICANT: Pineda, Omaira
; APPLICANT: Adam, Luc
; APPLICANT: Samaha, Raymond
; APPLICANT: Zhang, James
; APPLICANT: Xu, Guo-Liang
; APPLICANT: Ratcliffe, Oliver
; APPLICANT: Pilgrim, Marsha
; APPLICANT: Jiang, Cai-Zhong
; APPLICANT: Reuber, Lynne
; TITLE OF INVENTION: DISEASE-INDUCED POLYNUCLEOTIDES
; FILE REFERENCE: MBI-010
; CURRENT APPLICATION NUMBER: US/09/533,029
; CURRENT FILING DATE: 2000-03-22
; EARLIER APPLICATION NUMBER: 60/125,814
; EARLIER FILING DATE: 1999-03-23
; NUMBER OF SEQ ID NOS: 121
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 58
; LENGTH: 336
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; OTHER INFORMATION: G201
US-09-533-029-58

Query Match 48.7%; Score 37; DB 4; Length 336;
Best Local Similarity 46.2%; Pred. No. 73;
Matches 6; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 3 LTSGKIASCLNDN 15
|:|||||:|

Db 213 ISSTPLSCLND 225

RESULT 14
US-09-489-039A-7347
; Sequence 7347, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 7347
; LENGTH: 353
; TYPE: PRT

; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-7347

Query Match 48.7%; Score 37; DB 4; Length 353;
Best Local Similarity 53.8%; Pred.No. 77;
Matches 7; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 1 LKLTSGKIASCLN 13
Db 131 VKLTAGTHGGCLN 143

RESULT 15

US-09-614-912-38
; Sequence 38, Application US/09614912
; Patent No. 6675502
; GENERAL INFORMATION:
; APPLICANT: Allen, Steve
; APPLICANT: Rafalski, Antoni
; APPLICANT: Orozco, Buddy
; APPLICANT: Miao, Gou-Hau
; APPLICANT: Famodu, Omolayo O.
; APPLICANT: Lee, Jian Ming
; APPLICANT: Sakai, Hajime
; APPLICANT: Weng, Zude
; APPLICANT: Calmi, Perry G
; APPLICANT: Anderson, Shawn
; TITLE OF INVENTION: Plant Metabolism Genes
; FILE REFERENCE: BB1378 US NA
; CURRENT APPLICATION NUMBER: US/09/614,912
; CURRENT FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: 60/143,401
; PRIOR FILING DATE: 1999-07-12
; PRIOR APPLICATION NUMBER: 60/143,412
; PRIOR FILING DATE: 1999-07-12
; PRIOR APPLICATION NUMBER: 60/146,650
; PRIOR FILING DATE: 1999-07-30
; PRIOR APPLICATION NUMBER: 60/170,906
; PRIOR FILING DATE: 1999-12-15
; PRIOR APPLICATION NUMBER: 60/172,959
; PRIOR FILING DATE: 1999-12-21
; PRIOR APPLICATION NUMBER: 60/172,946
; PRIOR FILING DATE: 1999-12-21
; NUMBER OF SEQ ID NOS: 204
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 38
; LENGTH: 368
; TYPE: PRT
; ORGANISM: Oryza sativa
US-09-614-912-38

Query Match 48.7%; Score 37; DB 4; Length 368;
Best Local Similarity 63.6%; Pred.No. 81;
Matches 7; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 3 LTSGKIASCLN 13
Db 276 LTNGRHASCLH 286

Search completed: April 19, 2004, 12:51:29
Job time : 15 secs

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OM protein - protein search, using sw model

Run on: April 19, 2004, 11:29:35 ; Search time 35.3333 Seconds
(without alignments)
117.031 Million cell updates/sec

Title: US-09-308-027A-142

Perfect score: 76

Sequence: 1 LKLTSGKIASCLNDN 15

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-Processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA.*

- 1: /cgn2_6/prodata/2/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/prodata/2/pubpaa/ECT_NEW_PUB.pep.*
- 3: /cgn2_6/prodata/2/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/prodata/2/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/prodata/2/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/prodata/2/pubpaa/ECTUS_PUBCOMB.pep.*
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- 11: /cgn2_6/prodata/2/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/prodata/2/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/prodata/2/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/prodata/2/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/prodata/2/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/prodata/2/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/prodata/2/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/prodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|----|----------------------|
| 1 | 76 | 100.0 | 15 | 14 | US-10-354-240-153 |
| 2 | 76 | 100.0 | 20 | 14 | US-10-354-240-162 |
| 3 | 76 | 100.0 | 514 | 10 | US-09-847-208-69 |
| 4 | 54 | 71.1 | 10 | 14 | US-10-216-484-46 |
| 5 | 54 | 71.1 | 10 | 14 | US-10-384-933-46 |
| 6 | 54 | 71.1 | 15 | 14 | US-10-354-240-154 |
| 7 | 45 | 59.2 | 12 | 14 | US-10-354-240-6 |
| 8 | 45 | 59.2 | 15 | 14 | US-10-354-240-152 |
| 9 | 45 | 59.2 | 80 | 14 | US-10-354-240-1 |
| 10 | 42 | 55.3 | 226 | 14 | US-10-238-075-754 |
| 11 | 42 | 55.3 | 226 | 14 | US-10-238-075-1059 |
| 12 | 42 | 55.3 | 226 | 14 | US-10-238-075-1433 |
| 13 | 41 | 53.9 | 129 | 12 | US-10-424-599-247980 |
| 14 | 40 | 52.6 | 420 | 12 | US-10-425-114-50180 |
| 15 | 40 | 52.6 | 517 | 12 | US-10-424-599-208795 |

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| 16 | 39.5 | 52.0 | 192 | 12 | US-10-425-114-45152 | Sequence 45152, A |
| 17 | 39.5 | 52.0 | 574 | 12 | US-10-425-114-63117 | Sequence 63117, A |
| 18 | 39 | 51.3 | 104 | 9 | US-09-981-976-165 | Sequence 165, App |
| 19 | 39 | 51.3 | 104 | 10 | US-09-148-545-165 | Sequence 165, App |
| 20 | 39 | 51.3 | 157 | 9 | US-09-925-297-819 | Sequence 819, App |
| 21 | 39 | 51.3 | 316 | 12 | US-10-296-115-1377 | Sequence 1377, App |
| 22 | 39 | 51.3 | 316 | 12 | US-10-335-977-8530 | Sequence 8530, App |
| 23 | 39 | 51.3 | 567 | 12 | US-10-335-977-8531 | Sequence 8531, App |
| 24 | 39 | 51.3 | 638 | 14 | US-10-101-464A-74 | Sequence 74, Appl |
| 25 | 39 | 51.3 | 799 | 12 | US-10-183-687-368 | Sequence 368, App |
| 26 | 38.5 | 50.7 | 2341 | 12 | US-10-087-684-43 | Sequence 43, Appl |
| 27 | 38.5 | 50.7 | 2341 | 12 | US-10-218-779-43 | Sequence 43, Appl |
| 28 | 38 | 50.0 | 96 | 11 | US-09-864-408A-4014 | Sequence 4014, Ap |
| 29 | 38 | 50.0 | 396 | 15 | US-10-369-493-22485 | Sequence 22485, A |
| 30 | 38 | 50.0 | 435 | 12 | US-10-425-114-59643 | Sequence 59643, A |
| 31 | 38 | 50.0 | 437 | 9 | US-09-934-901-16 | Sequence 16, Appl |
| 32 | 38 | 50.0 | 437 | 9 | US-09-934-868-6 | Sequence 6, Appli |
| 33 | 38 | 50.0 | 437 | 10 | US-09-941-947A-2 | Sequence 2, Appli |
| 34 | 38 | 50.0 | 437 | 14 | US-10-320-924-16 | Sequence 16, Appl |
| 35 | 38 | 50.0 | 437 | 14 | US-10-320-874-16 | Sequence 16, Appl |
| 36 | 38 | 50.0 | 505 | 10 | US-09-978-418-46 | Sequence 46, Appl |
| 37 | 38 | 50.0 | 536 | 15 | US-10-369-493-1992 | Sequence 1992, Ap |
| 38 | 38 | 50.0 | 544 | 9 | US-09-925-301-869 | Sequence 869, App |
| 39 | 38 | 50.0 | 549 | 15 | US-10-264-049-2849 | Sequence 2849, Ap |
| 40 | 38 | 50.0 | 816 | 15 | US-10-369-493-3409 | Sequence 3409, Ap |
| 41 | 38 | 50.0 | 852 | 12 | US-10-282-122A-62892 | Sequence 62892, A |
| 42 | 38 | 50.0 | 905 | 15 | US-10-369-493-2550 | Sequence 2550, Ap |
| 43 | 37.5 | 49.3 | 1410 | 15 | US-10-369-493-5714 | Sequence 5714, Ap |
| 44 | 37 | 48.7 | 71 | 12 | US-10-424-599-195623 | Sequence 195623, |
| 45 | 37 | 48.7 | 110 | 12 | US-10-424-599-273517 | Sequence 273517, |

ALIGNMENTS

RESULT 1

US-10-354-240-153
; Sequence 153, Application US/10354240
; Publication No US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SFO-10301
; CURRENT APPLICATION NUMBER: US/10354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 153
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cry72 peptide, Figure 2, Row 70
US-10-354-240-153

Query Match 100.0%; Score 76; DB 14; Length 15;

Best Local Similarity 100.0%; Pred. No. 1.4e+06; Indels 0; Gaps 0;
Matches 15; Conservative 0; Mismatches 0;

Qy 1 LKLTSGKIASCLNDN 15

Db 1 LKLTSGKIASCLNDN 15

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RESULT 2
US-10-354-240-162
; Sequence 162, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Diseases
; FILE REFERENCE: SPO-10301
; CURRENT APPLICATION NUMBER: US/10/354,240
; PRIOR FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 162
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; NAME/KEY: MISC FEATURE
; LOCATION: (1)-(20)
; OTHER INFORMATION: Figure 7, Row e
US-10-354-240-162

Query Match      100.0%; Score 76; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.9e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 LKLTSGKIASCLNDN 15
Db      1 LKLTSGKIASCLNDN 15

RESULT 3
US-09-847-208-69
; Sequence 69, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002a
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 69
; LENGTH: 514
; TYPE: PRT
; ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-69

Query Match      100.0%; Score 76; DB 10; Length 514;
Best Local Similarity 100.0%; Pred. No. 7.2e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 LKLTSGKIASCLNDN 15
Db      400 LKLTSGKIASCLNDN 414

RESULT 4
US-10-216-484-46
; Sequence 46, Application US/10216484
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; Publication No. US20030103976A1
; GENERAL INFORMATION:
; APPLICANT: Serizawa, No. US20030103976A1ufusa
; APPLICANT: Haruyama, Hideyuki
; APPLICANT: Nakahara, Kaori
; APPLICANT: Tamaki, Ikuko
; APPLICANT: Takahashi, Tohru
; TITLE OF INVENTION: Anti-Fas Antibodies
; FILE REFERENCE: 980126CIP/HG
; CURRENT APPLICATION NUMBER: US/10/216,484
; CURRENT FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: US/09/499,662
; PRIOR FILING DATE: 2000-02-09
; PRIOR APPLICATION NUMBER: US 09/053,583
; PRIOR FILING DATE: 1998-04-01
; NUMBER OF SEQ ID NOS: 165
; SEQ ID NO 46
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-216-484-46

Query Match      71.1%; Score 54; DB 14; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0069;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      6 GKIASCLNDN 15
Db      1 GKIASCLNDN 10

RESULT 5
US-10-384-933-46
; Sequence 46, Application US/10384933
; Publication No. US20030170817A1
; GENERAL INFORMATION:
; APPLICANT: Serizawa, No. US20030170817A1ufusa
; APPLICANT: Haruyama, Hideyuki
; APPLICANT: Nakahara, Kaori
; APPLICANT: Tamaki, Ikuko
; APPLICANT: Takahashi, Tohru
; TITLE OF INVENTION: Anti-Fas Antibodies
; FILE REFERENCE: 980126CIP/HG
; CURRENT APPLICATION NUMBER: US/10/384,933
; CURRENT FILING DATE: 2003-02-05
; PRIOR APPLICATION NUMBER: US/09/499,662
; PRIOR FILING DATE: 2000-02-09
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 09/053,583
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-04-01
; NUMBER OF SEQ ID NOS: 165
; SEQ ID NO 46
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-384-933-46

Query Match      71.1%; Score 54; DB 14; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0069;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      6 GKIASCLNDN 15
Db      1 GKIASCLNDN 10

RESULT 6
US-10-354-240-154
; Sequence 154, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
```

; APPLICANT: Iwama, Akiko
; APPLICANT: Kuno, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 154
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 71
US-10-354-240-154

Query Match 71.1%; Score 54; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.011;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 GKIASCLNDN 15
| | | | | | | | | | | | | | |
DB 1 GKIASCLNDN 10

RESULT 7
US-10-354-240-6
; Sequence 6, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akimori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kuno, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
US-10-354-240-6

Query Match 59.2%; Score 45; DB 14; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LKLTSGKIAS 10
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DB 3 LKLTSGKIAS 12

RESULT 8
US-10-354-240-152
; Sequence 152, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akimori

; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kuno, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 152
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 69
US-10-354-240-152

Query Match 59.2%; Score 45; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.42;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LKLTSGKIAS 10
| | | | | | | | | | | |
DB 6 LKLTSGKIAS 15

RESULT 9
US-10-354-240-1
; Sequence 1, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akimori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kuno, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 80
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
US-10-354-240-1

Query Match 59.2%; Score 45; DB 14; Length 80;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LKLTSGKIAS 10
| | | | | | | | | | | |
DB 54 LKLTSGKIAS 63

RESULT 10
US-10-238-075-754
; Sequence 754, Application US/10238075
; Publication No. US20030148324A1
; GENERAL INFORMATION:
; APPLICANT: I.N.S.E.R.M.

```
; TITLE OF INVENTION: Polynucleotides which are of nature B2/D+ A- and which are isolated
; FILE REFERENCE: E.coli, and biological uses of these polynucleotides and of their
; CURRENT APPLICATION NUMBER: US/10/238,075
; PRIOR FILING DATE: 2002-09-10
; PRIOR APPLICATION NUMBER: 0003145
; NUMBER OF SEQ ID NOS: 1576
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 754
; LENGTH: 226
; TYPE: PRT
; ORGANISM: Escherichia coli
US-10-238-075-754

Query Match      55.3%; Score 42; DB 14; Length 226;
Best Local Similarity 46.7%; Pred. No. 30;
Matches 7; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY      1 LKLTSGKIASCLNDN 15
DB      91 LPLRNGRLITCLTDN 105

RESULT 11
US-10-238-075-1059
; Sequence 1059, Application US/10238075
; Publication No. US20030148324A1
; GENERAL INFORMATION:
; APPLICANT: I.N.S.E.R.M.
; TITLE OF INVENTION: Polynucleotides which are of nature B2/D+ A- and which are isolated
; FILE REFERENCE: E.coli, and biological uses of these polynucleotides and of their
; CURRENT APPLICATION NUMBER: US/10/238,075
; CURRENT FILING DATE: 2002-09-10
; PRIOR APPLICATION NUMBER: 0003145
; PRIOR FILING DATE: 2000-03-10
; NUMBER OF SEQ ID NOS: 1576
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 1059
; LENGTH: 226
; TYPE: PRT
; ORGANISM: Escherichia coli
US-10-238-075-1059

Query Match      55.3%; Score 42; DB 14; Length 226;
Best Local Similarity 46.7%; Pred. No. 30;
Matches 7; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY      1 LKLTSGKIASCLNDN 15
DB      91 LPLRNGRLITCLTDN 105

RESULT 12
US-10-238-075-1433
; Sequence 1433, Application US/10238075
; Publication No. US20030148324A1
; GENERAL INFORMATION:
; APPLICANT: I.N.S.E.R.M.
; TITLE OF INVENTION: Polynucleotides which are of nature B2/D+ A- and which are isolated
; FILE REFERENCE: E.coli, and biological uses of these polynucleotides and of their
; CURRENT APPLICATION NUMBER: US/10/238,075
; CURRENT FILING DATE: 2002-09-10
; PRIOR APPLICATION NUMBER: 0003145
; PRIOR FILING DATE: 2000-03-10
; NUMBER OF SEQ ID NOS: 1576
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 1433
; LENGTH: 226
; TYPE: PRT
; ORGANISM: Escherichia coli
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US-10-238-075-1433

Query Match      55.3%; Score 42; DB 14; Length 226;
Best Local Similarity 46.7%; Pred. No. 30;
Matches 7; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY      1 LKLTSGKIASCLNDN 15
DB      91 LPLRNGRLITCLTDN 105

RESULT 13
US-10-424-599-247980
; Sequence 247980, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 247980
; LENGTH: 129
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MBT3847_65957C.1.pep
US-10-424-599-247980

Query Match      53.9%; Score 41; DB 12; Length 129;
Best Local Similarity 66.7%; Pred. No. 24;
Matches 8; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY      1 LKLTSGKIASCL 12
DB      63 LRLISGRIPSCCL 74

RESULT 14
US-10-425-114-50180
; Sequence 50180, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 50180
; LENGTH: 420
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: 700849362_FLI.pep
US-10-425-114-50180

Query Match      52.6%; Score 40; DB 12; Length 420;
Best Local Similarity 50.0%; Pred. No. 1.4e+02;
Matches 6; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY      3 LTSGKIASCLND 14
```

Db 171 MSGSVASCLRD 182

RESULT 15

US-10-424-599-208795
 ; Sequence 208795, Application US/10424599
 ; Publication No. US20040031072A1
 ; GENERAL INFORMATION:
 ; APPLICANT: La Rosa Thomas J
 ; APPLICANT: Kovalic David K
 ; APPLICANT: Zhou Yihua
 ; APPLICANT: Cao Yongwei
 ; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
 ; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
 ; FILE REFERENCE: 38-21(53223)B
 ; CURRENT APPLICATION NUMBER: US/10/424,599
 ; CURRENT FILING DATE: 2003-04-28
 ; NUMBER OF SEQ ID NOS: 285684
 ; SEQ ID NO 208795
 ; LENGTH: 517
 ; TYPE: PRT
 ; ORGANISM: Glycine max
 ; FEATURE:
 ; NAME/KEY: unsure
 ; LOCATION: (1)..(517)
 ; OTHER INFORMATION: unsure at all Xaa locations
 ; FEATURE:
 ; OTHER INFORMATION: Clone ID: PAT_MRT3847_30570C.1.pap
 ; US-10-424-599-208795

Query Match 52.6%; Score 40; DB 12; Length 517;
 Best Local Similarity 50.0%; Pred. No. 1.7e+02;
 Matches 6; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

OY 3 LTSGKIASCLND 14

Db 268 MSGSVASCLRD 279

Search completed: April 19, 2004, 12:40:55
 JOB time : 36.3333 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 19, 2004, 12:38:32 ; Search time 14 Seconds
(without alignments)
55.314 Million cell updates/sec

Title: US-09-308-027A-23

Perfect score: 67

Sequence: 1 LSDISLKLTSKGIAS 15

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA:*

- 1: /cgn2.6/prodata/2/aaa/5A-COMB.pep:*
- 2: /cgn2.6/prodata/2/aaa/5B-COMB.pep:*
- 3: /cgn2.6/prodata/2/aaa/6A-COMB.pep:*
- 4: /cgn2.6/prodata/2/aaa/6B-COMB.pep:*
- 5: /cgn2.6/prodata/2/aaa/PCTUS-COMB.pep:*
- 6: /cgn2.6/prodata/2/aaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|----|----------------------|
| 1 | 67 | 100.0 | 24 | 3 | US-08-467-023-192 |
| 2 | 67 | 100.0 | 514 | 3 | US-08-467-023-134 |
| 3 | 53 | 79.1 | 127 | 3 | US-08-467-023-190 |
| 4 | 48 | 71.6 | 252 | 4 | US-09-489-039A-14081 |
| 5 | 44 | 65.7 | 152 | 4 | US-08-858-207A-335 |
| 6 | 44 | 65.7 | 344 | 4 | US-09-540-236-2702 |
| 7 | 40 | 59.7 | 303 | 4 | US-09-107-532A-5192 |
| 8 | 38 | 56.7 | 246 | 4 | US-09-489-039A-13116 |
| 9 | 38 | 56.7 | 543 | 4 | US-09-489-039A-13181 |
| 10 | 37 | 55.2 | 524 | 4 | US-09-543-681A-4787 |
| 11 | 37 | 55.2 | 740 | 4 | US-09-252-991A-21187 |
| 12 | 37 | 55.2 | 881 | 4 | US-09-489-039A-13851 |
| 13 | 36 | 53.7 | 113 | 4 | US-09-614-912-186 |
| 14 | 36 | 53.7 | 283 | 4 | US-09-134-001C-5534 |
| 15 | 36 | 53.7 | 384 | 4 | US-09-489-039A-9127 |
| 16 | 36 | 53.7 | 502 | 4 | US-09-328-352-5891 |
| 17 | 36 | 53.7 | 581 | 4 | US-09-543-681A-4472 |
| 18 | 35 | 52.2 | 121 | 4 | US-09-134-000C-4339 |
| 19 | 35 | 52.2 | 138 | 4 | US-09-134-001C-3167 |
| 20 | 35 | 52.2 | 284 | 4 | US-09-489-039A-13118 |
| 21 | 35 | 52.2 | 383 | 3 | US-08-836-261A-2 |
| 22 | 35 | 52.2 | 394 | 4 | US-09-107-532A-5184 |
| 23 | 35 | 52.2 | 456 | 3 | US-09-268-364-21 |
| 24 | 35 | 52.2 | 1186 | 1 | US-08-485-568A-4 |
| 25 | 35 | 52.2 | 1186 | 1 | US-08-357-698-6 |
| 26 | 35 | 52.2 | 1186 | 2 | US-08-590-554A-4 |
| 27 | 35 | 52.2 | 1186 | 2 | US-09-184-223-4 |

| | | | | | | |
|----|------|------|------|---|----------------------|-------------------|
| 28 | 35 | 52.2 | 1186 | 5 | PCT-US93-12682-6 | Sequence 6, Appli |
| 29 | 35 | 52.2 | 1391 | 4 | US-09-106-568E-8 | Sequence 8, Appli |
| 30 | 35 | 52.2 | 2627 | 2 | US-08-751-189-3 | Sequence 3, Appli |
| 31 | 35 | 52.2 | 2627 | 2 | US-09-060-836-3 | Sequence 3, Appli |
| 32 | 35 | 52.2 | 2627 | 3 | US-09-184-445-3 | Sequence 5, Appli |
| 33 | 34.5 | 51.5 | 717 | 4 | US-08-924-629C-5 | Sequence 5, Appli |
| 34 | 34.5 | 51.5 | 916 | 4 | US-09-543-681A-5205 | Sequence 5205, Ap |
| 35 | 34.5 | 51.5 | 916 | 4 | US-09-489-039A-14125 | Sequence 14125, A |
| 36 | 34 | 50.7 | 139 | 4 | US-09-621-976-4778 | Sequence 4778, Ap |
| 37 | 34 | 50.7 | 157 | 4 | US-09-621-976-4779 | Sequence 4779, Ap |
| 38 | 34 | 50.7 | 168 | 3 | US-08-975-762-37 | Sequence 37, Appl |
| 39 | 34 | 50.7 | 168 | 3 | US-08-921-324-37 | Sequence 37, Appl |
| 40 | 34 | 50.7 | 168 | 3 | US-09-295-028-37 | Sequence 37, Appl |
| 41 | 34 | 50.7 | 168 | 4 | US-09-106-582-37 | Sequence 37, Appl |
| 42 | 34 | 50.7 | 168 | 4 | US-09-159-469-37 | Sequence 37, Appl |
| 43 | 34 | 50.7 | 168 | 4 | US-09-693-542-37 | Sequence 37, Appl |
| 44 | 34 | 50.7 | 181 | 4 | US-09-134-000C-6440 | Sequence 6440, Ap |
| 45 | 34 | 50.7 | 226 | 4 | US-09-198-452A-260 | Sequence 260, App |

ALIGNMENTS

RESULT 1
US-08-467-023-192
; Sequence 192, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA: US/08467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38, 872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 192:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 24 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal

US-08-467-023-192

Query Match 100.0%; Score 67; DB 3; Length 24;
Best Local Similarity 100.0%; Pred. No. 4.4e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LSDISLKLTSKGKIAS 15
Db 10 LSDISLKLTSKGKIAS 24

RESULT 2

US-08-467-023-134

; Sequence 134, Application US/08467023

; Patent No. 6090386

; GENERAL INFORMATION:

; APPLICANT: Griffith, Irwin J.;

; APPLICANT: Pollock, Joanne;

; APPLICANT: Bond, Julian F.;

; APPLICANT: Garman, Richard D.;

; APPLICANT: Kuo, Mei-Chang;

; APPLICANT: Yeung, Siu-mei H.;

; APPLICANT: Brauer, Andrew;

; APPLICANT: Exley, Mark A.;

; APPLICANT: Powers, Steven P.

; TITLE OF INVENTION: Allergenic Proteins And Peptides From

; JAPANESSE Cedar Pollen

; NUMBER OF SEQUENCES: 261

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.

; STREET: 610 Lincoln St

; CITY: Waltham

; STATE: MA

; COUNTRY: USA

; ZIP: 02154

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/467,023

; FILING DATE: June 6, 1995

; CLASSIFICATION: 424

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/350,225

; FILING DATE: December 6, 1994

; ATTORNEY/AGENT INFORMATION:

; NAME: Jane E. Remillard

; REGISTRATION NUMBER: 38,872

; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (617) 227-7400

; TELEFAX: (617) 227-5941

; INFORMATION FOR SEQ ID NO: 134:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 514 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-08-467-023-134

Query Match 100.0%; Score 67; DB 3; Length 514;

Best Local Similarity 100.0%; Pred. No. 0.00015;

Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LSDISLKLTSKGKIAS 15

Db 395 LSDISLKLTSKGKIAS 409

RESULT 3

US-08-467-023-190

; Sequence 190, Application US/08467023

; Patent No. 6090386

; GENERAL INFORMATION:

; APPLICANT: Griffith, Irwin J.;

; APPLICANT: Pollock, Joanne;

; APPLICANT: Bond, Julian F.;

; APPLICANT: Garman, Richard D.;

; APPLICANT: Kuo, Mei-Chang;

; APPLICANT: Yeung, Siu-mei H.;

; APPLICANT: Brauer, Andrew;

; APPLICANT: Exley, Mark A.;

; APPLICANT: Powers, Steven P.

; TITLE OF INVENTION: Allergenic Proteins And Peptides From

; JAPANESSE Cedar Pollen

; NUMBER OF SEQUENCES: 261

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.

; STREET: 610 Lincoln St

; CITY: Waltham

; STATE: MA

; COUNTRY: USA

; ZIP: 02154

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/467,023

; FILING DATE: June 6, 1995

; CLASSIFICATION: 424

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/350,225

; FILING DATE: December 6, 1994

; ATTORNEY/AGENT INFORMATION:

; NAME: Jane E. Remillard

; REGISTRATION NUMBER: 38,872

; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (617) 227-7400

; TELEFAX: (617) 227-5941

; INFORMATION FOR SEQ ID NO: 190:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 127 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: peptide

; FRAGMENT TYPE: internal

US-08-467-023-190

Query Match 79.1%; Score 53; DB 3; Length 127;

Best Local Similarity 100.0%; Pred. No. 0.013;

Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 ISLKLTSKGKIAS 15

Db 11 ISLKLTSKGKIAS 22

RESULT 4

US-09-489-039A-14081

; Sequence 14081, Application US/09489039A

; Patent No. 6610836

; GENERAL INFORMATION:

; APPLICANT: Gary Breton et. al

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA

; FILE REFERENCE: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS

; CURRENT APPLICATION NUMBER: US/09/489,039A

; CURRENT FILING DATE: 2000-01-27

; PRIOR APPLICATION NUMBER: US 60/117,747

; PRIOR FILING DATE: 1999-01-29

; NUMBER OF SEQ ID NOS: 14342

```

; SEQ ID NO 14081
; LENGTH: 252
; TYPE: PRT
; ORGANISM: Kle
US-09-489-039A-14

```

Query Match 71.6%; Score 48; DB 4; Length 252;
Best Local Similarity 84.6%; Pred. No. 0.26;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 LSDISLKTSGKI 13
Db 22 LSDISLALTPGKI 34

RESULT 5
US-08-858-207A-335
; Sequence 335, Application US/08858207A

/ Patent NO. 6348328
 / GENERAL INFORMATION:
 / APPLICANT: Black, Michael
 / APPLICANT: Hodgson, John
 / APPLICANT: Knowles, David
 / APPLICANT: Nicholas, Richard
 / APPLICANT: Stodola, Robert
 / TITLE OF INVENTION: NO. 6348328el Compounds
 / NUMBER OF SEQUENCES: 552
 / CORRESPONDENCE ADDRESS:
 / ADDRESSEE: SmithKline Beecham Corporation
 / STREET: 709 Swedeland Road
 / CITY: King of Prussia
 / STATE: PA
 / COUNTRY: USA
 / ZIP: 19406-0939

```

: FLEX:
: INFORMATION FOR SEQ ID NO: 335:
:-----
: SEQUENCE CHARACTERISTICS:
:     LENGTH: 152 amino acids
:     TYPE: amino acid
:     STRANDEDNESS: single
:     TOPOLOGY: linear
:     MOLECULE TYPE: No. 63483298
: US-08-558-207A-335

```

| | | | | |
|-----------------------|--------------|-----------------|---------------|-------------|
| Query Match | 65.7% | Score 44; | DB 4; | Length 152; |
| Best Local Similarity | 53.3% | Pred. No. 0.83; | | |
| Matches 8; | Conservative | 5; | Mismatches 2; | Indels 0; |
| Gaps | 0; | | | |

Qy 1 LSDISLKTSGKIAS 15
 |||::|||::|
 Db 19 LEDINLQVTSGEVVS 33

RESULT 6

```

US-09-540-236-2702
; Sequence 2702, Application US/09540236
; Patent No. 6673910
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEAR ACID AND AMINO
; ACID DERIVATIVES FOR DIAGNOSTICS AND THERAPY
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPY
; FILE REFERENCE: 2709.2005-001
; CURRENT APPLICATION NUMBER: US/09/540,236
; CURRENT FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 3840
; SEQ ID NO 2702
; LENGTH: 344
; TYPE: prt
; ORGANISM: M.catarrhalis
US-09-540-236-2702

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Query Match 65.7%; Score 44; DB 4; Length 344;
Best Local Similarity 71.4%; Pred. No. 2.1;
Matches 10: Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 LSDISLKLTSKIA 14
|:| | | | | | | | | |
db 22 LTDISLHLKSGOIA 35

RESULT 7

US-09-107-532A-5192
; Sequence 5192, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:

FULL INFORMATION:
 APPLICANT: Lynn A Doucette-Stamm and David Bush
 TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
 ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
 NUMBER OF SEQUENCES: 7310
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: GENOME THERAPEUTICS CORPORATION

PRIOR APPLICATION NUMBER: 60/085,598
APPLICATION NUMBER: 60/085,598
FILING DATE: 14 MAY 1998
APPLICATION NUMBER: 60/051571
FILING DATE: JULY 2, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Ariniello, Pamela Deneke
REGISTRATION NUMBER: 40,489
REFERENCE/DOCKET NUMBER: GTC-012
TELECOMMUNICATION INFORMATION:
TELEPHONE: (781)893-5007
TELEFAX: (781)893-8277

FEATURE:
NAME/KEY: misc feature

LOCATION: (B) LOCATION 1...303
SEQUENCE DESCRIPTION: SEQ ID NO: 5192:
US-09-107-532A-5192

Query Match 59.7%; Score 40; DB 4; Length 303;
Best Local Similarity 61.5%; Pred. No. 11;
Matches 8; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy 1 LSDISLKLTSQKI 13
| | | | | | | | | |
Db 21 LSDVSFSLSPGKI 33

RESULT 8

US-09-489-039A-13116
; Sequence 13116, Application US/09489039A
; Patent No. 6610836

GENERAL INFORMATION:

APPLICANT: Gary Breton et. al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 2709.2004001
CURRENT APPLICATION NUMBER: US/09/489,039A
CURRENT FILING DATE: 2000-01-27
PRIOR APPLICATION NUMBER: US 60/117,747
PRIOR FILING DATE: 1999-01-29
NUMBER OF SEQ ID NOS: 14342
SEQ ID NO 13116
LENGTH: 246
TYPE: PRT
ORGANISM: Klebsiella pneumoniae

US-09-489-039A-13116

Query Match 56.7%; Score 38; DB 4; Length 246;
Best Local Similarity 53.8%; Pred. No. 20;
Matches 7; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 1 LSDISLKLTSQKI 13
| | | | | | | | | |
Db 23 LHDISLKLQGEV 35

RESULT 9

US-09-489-039A-13181
; Sequence 13181, Application US/09489039A
; Patent No. 6610836

GENERAL INFORMATION:

APPLICANT: Gary Breton et. al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 2709.2004001
CURRENT APPLICATION NUMBER: US/09/489,039A
CURRENT FILING DATE: 2000-01-27
PRIOR APPLICATION NUMBER: US 60/117,747
PRIOR FILING DATE: 1999-01-29
NUMBER OF SEQ ID NOS: 14342
SEQ ID NO 13181
LENGTH: 543
TYPE: PRT
ORGANISM: Klebsiella pneumoniae

US-09-489-039A-13181

Query Match 56.7%; Score 38; DB 4; Length 543;
Best Local Similarity 61.5%; Pred. No. 49;
Matches 8; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy 1 LSDISLKLTSQKI 13
| | | | | | | | | |
Db 315 LQDISLRLKGEI 327

RESULT 10

US-09-543-681A-4787

Sequence 4787, Application US/09543681A
Patent No. 6605709
GENERAL INFORMATION:

APPLICANT: GARY BRETON
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 2709.1002-001
CURRENT APPLICATION NUMBER: US/09/543,681A
CURRENT FILING DATE: 2000-04-05
PRIOR APPLICATION NUMBER: US 60/128,706
PRIOR FILING DATE: 1999-04-09
NUMBER OF SEQ ID NOS: 8344
SEQ ID NO 4787
LENGTH: 524
TYPE: PRT
ORGANISM: Proteus mirabilis

US-09-543-681A-4787

Query Match 55.2%; Score 37; DB 4; Length 524;
Best Local Similarity 53.8%; Pred. No. 73;
Matches 7; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 3 DISLKLTSQKIAS 15
| | | | | | | | | |
Db 502 DITLKLNGQLVLS 514

RESULT 11

US-09-252-991A-21187
; Sequence 21187, Application US/09252991A
; Patent No. 6551795

GENERAL INFORMATION:

APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 21187
LENGTH: 740
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-21187

Query Match 55.2%; Score 37; DB 4; Length 740;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 KLTSQKIA 14
| | | | | | | | | |
Db 431 KLTSQKIA 438

RESULT 12

US-09-489-039A-13851
; Sequence 13851, Application US/09489039A
; Patent No. 6610836

GENERAL INFORMATION:

APPLICANT: Gary Breton et. al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 2709.2004001
CURRENT APPLICATION NUMBER: US/09/489,039A
CURRENT FILING DATE: 2000-01-27
PRIOR APPLICATION NUMBER: US 60/117,747
PRIOR FILING DATE: 1999-01-29
NUMBER OF SEQ ID NOS: 14342
SEQ ID NO 13851

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; LENGTH: 881
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-13851

Query Match      55.2%; Score 37; DB 4; Length 881;
Best Local Similarity 53.8%; Pred. No. 1.3e+02;
Matches 7; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 LSDISLKLTSCKI 13
   |||:|:|
Db 690 LSDVSVLLGGKL 702

RESULT 13
US-09-614-912-186
; Sequence 186, Application US/09614912
; Patent No. 6677502
; GENERAL INFORMATION:
; APPLICANT: Allen, Steve
; APPLICANT: Rafalski, Antoni
; APPLICANT: Orozco, Buddy
; APPLICANT: Miao, Gou-Hau
; APPLICANT: Famodu, Omolayo O.
; APPLICANT: Lee, Jian Ming
; APPLICANT: Sakai, Hajime
; APPLICANT: Meng, Zude
; APPLICANT: Cai, Perry G
; APPLICANT: Anderson, Shawn
; TITLE OF INVENTION: Plant Metabolism Genes
; FILE REFERENCE: BB1378 US NA
; CURRENT APPLICATION NUMBER: US/09/614,912
; CURRENT FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: 60/143,401
; PRIOR FILING DATE: 1999-07-12
; PRIOR APPLICATION NUMBER: 60/143,412
; PRIOR FILING DATE: 1999-07-12
; PRIOR APPLICATION NUMBER: 60/146,650
; PRIOR FILING DATE: 1999-07-30
; PRIOR APPLICATION NUMBER: 60/170,906
; PRIOR FILING DATE: 1999-12-15
; PRIOR APPLICATION NUMBER: 60/172,959
; PRIOR FILING DATE: 1999-12-21
; PRIOR APPLICATION NUMBER: 60/172,946
; PRIOR FILING DATE: 1999-12-21
; NUMBER OF SEQ ID NOS: 204
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 186
; LENGTH: 113
; TYPE: PRT
; ORGANISM: Zea mays
US-09-614-912-186

Query Match      53.7%; Score 36; DB 4; Length 113;
Best Local Similarity 61.5%; Pred. No. 19;
Matches 8; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 2 SDISLKLTSCKIA 14
   ||:|:|
Db 71 SDLVVLSDGKIA 83

RESULT 14
US-09-134-001C-5534
; Sequence 5534, Application US/09134001C
; Patent No. 6380370
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
; FILE REFERENCE: GTC-007
; CURRENT APPLICATION NUMBER: US/09/134,001C
; CURRENT FILING DATE: 1998-08-13
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; PRIOR APPLICATION NUMBER: US 60/064,964
; PRIOR FILING DATE: 1997-11-08
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-13851

Query Match      53.7%; Score 36; DB 4; Length 283;
Best Local Similarity 46.7%; Pred. No. 55;
Matches 7; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY 1 LSDISLKLTSCKIAS 15
   |||:|:|
Db 41 LKDISVDIKKGKLTSS 55

RESULT 15
US-09-489-039A-9127
; Sequence 9127, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 9127
; LENGTH: 384
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-9127

Query Match      53.7%; Score 36; DB 4; Length 384;
Best Local Similarity 46.7%; Pred. No. 79;
Matches 7; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

QY 1 LSDISLKLTSCKIAS 15
   |||:|:|
Db 38 LNDISLDIPSGQWVA 52

Search completed: April 19, 2004, 12:51:28
Job time : 15 secs
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OM protein - protein search, using sw model

Run on: April 19, 2004, 11:29:35 ; Search time 35.3333 Seconds

(without alignments)
117.031 Million cell updates/sec

Title: US-09-308-027A-23

Perfect score: 67

Sequence: 1 LSDISLKLTSKGIAS 15

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

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Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA.*

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12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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| 1 | 67 | 100.0 | 15 | 14 | US-10-354-240-152 |
| 2 | 67 | 100.0 | 514 | 10 | US-09-847-208-69 |
| 3 | 53 | 79.1 | 10 | 14 | US-10-354-240-6 |
| 4 | 53 | 79.1 | 80 | 14 | US-10-354-240-1 |
| 5 | 45 | 67.2 | 15 | 14 | US-10-354-240-153 |
| 6 | 45 | 67.2 | 20 | 14 | US-10-354-240-162 |
| 7 | 44 | 65.7 | 15 | 14 | US-10-354-240-151 |
| 8 | 44 | 65.7 | 242 | 10 | US-09-769-744A-72 |
| 9 | 44 | 65.7 | 239 | 9 | US-09-815-242-12958 |
| 10 | 44 | 65.7 | 239 | 9 | US-09-815-242-13088 |
| 11 | 42 | 62.7 | 235 | 12 | US-10-282-122A-43036 |
| 12 | 40 | 59.7 | 295 | 9 | US-09-815-243-5269 |
| 13 | 40 | 59.7 | 299 | 9 | US-09-815-243-12197 |
| 14 | 40 | 59.7 | 239 | 12 | US-10-282-122A-44427 |
| 15 | 40 | 59.7 | 550 | 9 | US-09-738-626-5843 |

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16 40 59.7 644 15 US-10-108-260A-2689 Sequence 2689, Ap
17 40 59.7 1066 15 US-10-094-749-2550 Sequence 2550, Ap
18 38 56.7 222 12 US-10-424-599-162005 Sequence 162005, A
19 38 56.7 240 12 US-10-282-122A-59938 Sequence 59938, A
20 38 56.7 241 12 US-10-282-122A-77497 Sequence 77497, A
21 38 56.7 251 12 US-10-282-122A-54577 Sequence 54577, A
22 38 56.7 267 12 US-10-425-114-56280 Sequence 56280, A
23 38 56.7 273 12 US-10-282-122A-77136 Sequence 77136, A
24 38 56.7 291 12 US-10-282-122A-75859 Sequence 75859, A
25 38 56.7 294 12 US-10-282-122A-52272 Sequence 52272, A
26 38 56.7 311 12 US-10-424-599-252529 Sequence 252529, A
27 38 56.7 327 12 US-10-425-114-55058 Sequence 55058, A
28 38 56.7 398 15 US-10-225-068-74 Sequence 74, Appl
29 38 56.7 398 15 US-10-374-780A-356 Sequence 356, Appl
30 38 56.7 475 15 US-10-369-493-11979 Sequence 11979, A
31 38 56.7 548 15 US-10-374-780A-2170 Sequence 2170, Ap
32 38 56.7 576 12 US-10-424-599-216003 Sequence 216003,
33 37 55.2 44 12 US-10-424-599-164721 Sequence 164721,
34 37 55.2 57 11 US-09-864-408A-5808 Sequence 5808, Ap
35 37 55.2 196 12 US-10-424-599-261274 Sequence 261274,
36 37 55.2 233 12 US-10-335-977-9265 Sequence 9265, Ap
37 37 55.2 240 9 US-09-815-242-11360 Sequence 11360, A
38 37 55.2 240 9 US-09-815-242-11527 Sequence 11527, A
39 37 55.2 240 12 US-10-282-122A-58778 Sequence 58778, A
40 37 55.2 240 12 US-10-335-977-9266 Sequence 9266, Ap
41 37 55.2 240 12 US-10-335-977-9267 Sequence 9267, Ap
42 37 55.2 295 12 US-10-282-122A-51743 Sequence 51743, A
43 37 55.2 407 12 US-10-424-599-261841 Sequence 261841,
44 37 55.2 481 15 US-10-369-493-17301 Sequence 17301, A
45 37 55.2 482 15 US-10-369-493-2215 Sequence 2215, Ap

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ALIGNMENTS

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RESULT 1
US-10-354-240-152
; Sequence 152, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akimori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103DI
; CURRENT APPLICATION NUMBER: US/10/354,240
; PRIOR FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 152
; LENGTH: 15
; TYPE: PPT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 69
US-10-354-240-152

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Query Match 100.0%; Score 67; DB 14; Length 15;

Best Local Similarity 100.0%; Pred. No. 1.4e-05; Indels 0; Gaps 0;

Matches 15; Conservative 0; Mismatches 0;

Qy 1 LSDISLKLTSKGIAS 15

Db 1 LSDISLKLTSKGIAS 15

RESULT 2

US-09-847-208-69
; Sequence 69, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: US67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 69
; LENGTH: 514
; TYPE: PRT
; ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-69

Query Match 100.0%; Score 67; DB 10; Length 514;
Best Local Similarity 100.0%; Pred. No. 0.00081;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LSDISLKLTSKGKIAS 15
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DB 395 LSDISLKLTSKGKIAS 409

RESULT 3

US-10-354-240-6
; Sequence 6, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akimori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
US-10-354-240-6

Query Match 79.1%; Score 53; DB 14; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.0043;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 ISLKLTSKGKIAS 15
|||
DB 1 ISLKLTSKGKIAS 12

RESULT 4

US-10-354-240-1
; Sequence 1, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akimori

; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 80
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
US-10-354-240-1

Query Match 79.1%; Score 53; DB 14; Length 80;
Best Local Similarity 100.0%; Pred. No. 0.038;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 ISLKLTSKGKIAS 15
|||
DB 52 ISLKLTSKGKIAS 63

RESULT 5

US-10-354-240-153
; Sequence 153, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akimori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 153
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 70
US-10-354-240-153

Query Match 67.2%; Score 45; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 LKLTSKGKIAS 15
|||
DB 1 LKLTSKGKIAS 10

RESULT 6

US-10-354-240-162
; Sequence 162, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio

```

; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiho
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 162
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)-(20)
; OTHER INFORMATION: Figure 7, Row e
US-10-354-240-162

Query Match 67.2%; Score 45; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.24;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 LKLTSGKIAS 15
Db 1 LKLTSGKIAS 10

RESULT 7
US-10-354-240-151
; Sequence 151, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiho
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 151
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)-(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 68
US-10-354-240-151

Query Match 65.7%; Score 44; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.26;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LSDISLKLTS 10
Db 6 LSDISLKLTS 15

RESULT 8
US-09-769-744A-72
; Sequence 72, Application US/09769744A
; Publication No. US2003013407A1
; GENERAL INFORMATION:
; APPLICANT: Le Page, Richard WF
; APPLICANT: Wells, Jeremy M
; APPLICANT: Hanniffy, Sean B
; APPLICANT: Hansbro, Philip M
; TITLE OF INVENTION: Proteins
; FILE REFERENCE: PWC/P21122WO
; CURRENT APPLICATION NUMBER: US/09/769,744A
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: PCT/GB99/02452
; PRIOR FILING DATE: 1999-07-27
; PRIOR APPLICATION NUMBER: GB 9816336.3
; PRIOR FILING DATE: 1998-07-27
; PRIOR APPLICATION NUMBER: US 60/125329
; PRIOR FILING DATE: 1999-03-19
; NUMBER OF SEQ ID NOS: 196
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 72
; LENGTH: 242
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-09-769-744A-72

Query Match 65.7%; Score 44; DB 10; Length 242;
Best Local Similarity 53.3%; Pred. No. 6.4;
Matches 8; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy 1 LSDISLKLTSKTIAS 15
Db 19 LEDINLQVTSGEVVS 33

RESULT 9
US-09-815-242-12958
; Sequence 12958, Application US/09815242
; Patent No. US20020061569A1
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari L.
; APPLICANT: Zvekind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in Prokaryotes
; FILE REFERENCE: ELITRA 011A
; CURRENT APPLICATION NUMBER: US/09/815,242
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12958
; LENGTH: 299
; TYPE: PRT
; ORGANISM: Staphylococcus aureus
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US-09-815-242-12958

Query Match 65.7%; Score 44; DB 9; Length 299;
Best Local Similarity 69.2%; Pred. No. 8.1;
Matches 9; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LSDISLKTSGKI 13
Db 18 VNDISLKTSGKM 30

RESULT 10

US-09-815-242-13088
Sequence 13088, Application US/09815242
Patent No. US20020061569A1

GENERAL INFORMATION:

APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Kari L.
APPLICANT: Zyskind, Judith W.
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John D.
APPLICANT: Carr, Grant J.
APPLICANT: Yamamoto, Robert T.

APPLICANT: Xu, H. Howard
TITLE OF INVENTION: Identification of Essential Genes in Prokaryotes

FILE REFERENCE: ELITRA.011A
CURRENT APPLICATION NUMBER: US/09/815,242

CURRENT FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
NUMBER OF SEQ ID NOS: 14110
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 13088
LENGTH: 299
TYPE: PRT
ORGANISM: Staphylococcus aureus

US-09-815-242-13088

Query Match 65.7%; Score 44; DB 9; Length 299;
Best Local Similarity 69.2%; Pred. No. 8.1;
Matches 9; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LSDISLKTSGKI 13
Db 18 VNDISLKTSGKM 30

RESULT 11

US-10-282-122A-43036
Sequence 43036, Application US/10282122A
Publication No. US20040029129A1

GENERAL INFORMATION:

APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Kari
APPLICANT: Zyskind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John

APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
APPLICANT: Xu, H.

TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITRA.034A

CURRENT APPLICATION NUMBER: US/10/282,122A

CURRENT FILING DATE: 2003-02-20

PRIOR APPLICATION NUMBER: 60/191,078

PRIOR FILING DATE: 2000-03-21

PRIOR APPLICATION NUMBER: 60/206,848

PRIOR FILING DATE: 2000-05-23

PRIOR APPLICATION NUMBER: 60/207,727

PRIOR FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: 60/230,335

PRIOR FILING DATE: 2000-09-06

PRIOR APPLICATION NUMBER: 60/230,347

PRIOR FILING DATE: 2000-09-09

PRIOR APPLICATION NUMBER: 60/242,578

PRIOR FILING DATE: 2000-10-23

PRIOR APPLICATION NUMBER: 60/253,625

PRIOR FILING DATE: 2000-11-27

PRIOR APPLICATION NUMBER: 60/257,931

PRIOR FILING DATE: 2000-12-22

PRIOR APPLICATION NUMBER: 60/267,636

PRIOR FILING DATE: 2001-02-09

PRIOR APPLICATION NUMBER: 60/269,308

PRIOR FILING DATE: 2001-03-16

Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 78614
SOFTWARE: PatentIn version 3.1
SEQ ID NO 43036
LENGTH: 255
TYPE: PRT
ORGANISM: Escherichia coli

US-10-282-122A-43036

Query Match 62.7%; Score 42; DB 12; Length 255;
Best Local Similarity 53.3%; Pred. No. 16;
Matches 8; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

Qy 1 LSDISLKTSGKIAS 15
Db 18 LNDVSLSLPTGKITA 32

RESULT 12

US-09-815-242-5269
Sequence 5269, Application US/09815242
Patent No. US20020061569A1

GENERAL INFORMATION:

APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Kari L.
APPLICANT: Zyskind, Judith W.
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John D.
APPLICANT: Carr, Grant J.
APPLICANT: Yamamoto, Robert T.

APPLICANT: Xu, H. Howard
TITLE OF INVENTION: Identification of Essential Genes in Prokaryotes

FILE REFERENCE: ELITRA.011A

CURRENT APPLICATION NUMBER: US/09/815,242

CURRENT FILING DATE: 2001-03-21

PRIOR APPLICATION NUMBER: 60/191,078

PRIOR FILING DATE: 2000-03-21

PRIOR APPLICATION NUMBER: 60/206,848

PRIOR FILING DATE: 2000-05-23

PRIOR APPLICATION NUMBER: 60/207,727

PRIOR FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: 60/242,578

PRIOR FILING DATE: 2000-10-23

PRIOR APPLICATION NUMBER: 60/253,625

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; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5269
; LENGTH: 295
; TYPE: PRT
; ORGANISM: Staphylococcus aureus
US-09-815-242-5269
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Query Match          59.7%; Score 40; DB 9; Length 295;
Best Local Similarity 61.5%; Pred. No. 44;
Matches      8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
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Qy      1 LSDISLKTSGKI 13
Db      18 VNDISLESGKM 30
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RESULT 13
US-09-815-242-12197
; Sequence 12197, Application US/09815242
; Patent No. US20020061569A1
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari L.
; APPLICANT: Zyskind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/09/815,242
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12197
; LENGTH: 299
; TYPE: PRT
; ORGANISM: Staphylococcus aureus
US-09-815-242-12197
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Query Match          59.7%; Score 40; DB 9; Length 299;
Best Local Similarity 61.5%; Pred. No. 45;
Matches      8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
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```
Qy      1 LSDISLKTSGKI 13
Db      18 VNDISLESGKM 30
```

```
RESULT 14
US-10-282-122A-44427
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; Sequence 44427, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 44427
; LENGTH: 299
; TYPE: PRT
; ORGANISM: Staphylococcus aureus
US-10-282-122A-44427
```

```
Query Match          59.7%; Score 40; DB 12; Length 299;
Best Local Similarity 61.5%; Pred. No. 45;
Matches      8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
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```
Qy      1 LSDISLKTSGKI 13
Db      18 VNDISLESGKM 30
```

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RESULT 15
US-09-738-626-5843
; Sequence 5843, Application US/09738626
; Publication No. US20020197605A1
; GENERAL INFORMATION:
; APPLICANT: NAKAGAWA, SATOSHI
; APPLICANT: MIZOGUCHI, HIROSHI
; APPLICANT: ANDO, SEIKO
; APPLICANT: HAYASHI, MIKIRO
; APPLICANT: OCHIAI, KEIKO
; APPLICANT: YOKOI, HARUHIKO
; APPLICANT: TATEISHI, NAOKO
; APPLICANT: SENO, AKIHIRO
; APPLICANT: IKEDA, MASATO
; APPLICANT: OZAKI, AKIO
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
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us-09-308-027a-23.rapb

Mon Apr 19 13:31:41 2004

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; FILE REFERENCE: 249-125
; CURRENT APPLICATION NUMBER: US/09/738,626
; CURRENT FILING DATE: 2000-12-18
; PRIOR APPLICATION NUMBER: JP 99/377484
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: JP 00/159162
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: JP 00/280988
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 7059
; SOFTWARE: PatentIn ver. 3.0
; SEQ ID NO 5843
; LENGTH: 550
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
US-09-738-626-5843

Query Match      59.7% Score 40; DB 9; Length 550;
Best Local Similarity 64.3%; Pred. No. 91;
Matches 9; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy      1 LSDISLKLTSKIA 14
      ||||| :|||
Db      23 LSDISLTVANGDIA 36

Search completed: April 19, 2004, 12:40:54
Job time : 35.3333 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:39 ; Search time 14.6939 Seconds
(without alignments)
52.702 Million cell updates/sec

Title: US-09-308-027A-21

Perfect score: 82

Sequence: 1 IQLKCSDSMPCKDIK 15

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*
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3: /cgn2_6/prodata/2/1aa/6A COMB pep:*
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6: /cgn2_6/prodata/2/1aa/backfiles1.pcp:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|----|---------------------|
| 1 | 82 | 100.0 | 127 | 3 | US-08-467-023-189 |
| 2 | 82 | 100.0 | 514 | 3 | US-08-467-023-134 |
| 3 | 51 | 62.2 | 24 | 3 | US-08-467-023-192 |
| 4 | 46 | 56.1 | 440 | 1 | US-08-061-062A-6 |
| 5 | 46 | 56.1 | 440 | 1 | US-08-061-062A-8 |
| 6 | 46 | 56.1 | 440 | 3 | US-08-536-150-6 |
| 7 | 46 | 56.1 | 440 | 3 | US-08-536-150-8 |
| 8 | 42 | 51.2 | 208 | 1 | US-08-109-391A-4 |
| 9 | 42 | 51.2 | 208 | 1 | US-08-459-019A-4 |
| 10 | 42 | 51.2 | 208 | 2 | US-08-460-428A-4 |
| 11 | 42 | 51.2 | 208 | 3 | US-08-458-860A-4 |
| 12 | 42 | 51.2 | 694 | 1 | US-08-164-839-4 |
| 13 | 42 | 51.2 | 694 | 1 | US-08-583-799-4 |
| 14 | 42 | 51.2 | 695 | 1 | US-08-164-839-6 |
| 15 | 42 | 51.2 | 695 | 1 | US-08-583-799-6 |
| 16 | 41 | 50.0 | 691 | 4 | US-09-134-001C-4675 |
| 17 | 39 | 47.6 | 61 | 2 | US-08-785-530-5 |
| 18 | 39 | 47.6 | 61 | 2 | US-09-123-850-5 |
| 19 | 39 | 47.6 | 113 | 1 | US-07-668-648-10 |
| 20 | 39 | 47.6 | 113 | 2 | US-08-429-998-10 |
| 21 | 39 | 47.6 | 113 | 2 | US-08-431-333-10 |
| 22 | 39 | 47.6 | 113 | 5 | PCT-US91-02321-10 |
| 23 | 38.5 | 47.0 | 52 | 4 | US-09-732-210-921 |
| 24 | 38.5 | 47.0 | 1724 | 4 | US-09-607-510-2 |
| 25 | 38 | 46.3 | 152 | 4 | US-09-402-016A-6 |
| 26 | 38 | 46.3 | 462 | 4 | US-09-640-419C-27 |
| 27 | 38 | 46.3 | 1162 | 2 | US-08-663-566A-15 |

Sequence 15, Appl
Sequence 15, Appl
Sequence 15, Appl
Sequence 15, Appl
Sequence 10, Appl
Sequence 10, Appl
Sequence 18, Appl
Sequence 17096, A
Sequence 6, Appl
Sequence 6, Appl
Sequence 18, Appl
Sequence 6, Appl
Sequence 6, Appl
Sequence 30240, A
Patent No. 5447867
Sequence 7, Appl

ALIGNMENTS

RESULT 1
US-08-467-023-189
; Sequence 189, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 189:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 127 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal

US-08-467-023-189

Query Match 100.0%; Score 82; DB 3; Length 127;
Best Local Similarity 100.0%; Pred. No. 7e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IQLKSDSMPCKDIK 15
|||||
Db 110 IQLKSDSMPCKDIK 124

RESULT 2

US-08-467-023-134
; Sequence 134, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; JAPANESE CEDAR POLLEN
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immulogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; PRIORITY APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 134:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 514 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-467-023-134

Query Match 100.0%; Score 82; DB 3; Length 514;
Best Local Similarity 100.0%; Pred. No. 2.9e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IQLKSDSMPCKDIK 15
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Db 380 IQLKSDSMPCKDIK 394

RESULT 3

US-08-467-023-192

; Sequence 192, Application US/08467023

; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; JAPANESE CEDAR POLLEN
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immulogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; PRIORITY APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 192:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 24 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
; US-08-467-023-192

Query Match 62.2%; Score 51; DB 3; Length 24;
Best Local Similarity 100.0%; Pred. No. 0.099;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 DSMPCDKIK 15

|||||

Db 1 DSMPCDKIK 9

RESULT 4

US-08-061-062A-6
; Sequence 6, Application US/08061062A
; Patent No. 5550045
; GENERAL INFORMATION:
; APPLICANT: MUSTERS, WOUTER
; APPLICANT: STAM, HEIN
; APPLICANT: SUYKERBUYK, MARIA E.
; APPLICANT: VISSER, JACOB
; APPLICANT: VERBAKEL, Johannes M.
; TITLE OF INVENTION: CLONING AND EXPRESSION OF DNA
; ENCODING A RIPENING FORM OF A POLYPEPTIDE HAVING
; RHAMNOLACTURONASE ACTIVITY
; NUMBER OF SEQUENCES: 16

; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CUSHMAN DARBY & CUSHMAN
; STREET: 1100 NEW YORK AVENUE, N.W.
; CITY: WASHINGTON, D.C.
; COUNTRY: U.S.A.
; ZIP: 20005-3918
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/061,062A
; FILING DATE: 14 MAY 1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: KOKULIS, PAUL N.
; REGISTRATION NUMBER: 16773
; REFERENCE/DOCKET NUMBER: 202390/R 7262 (V)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 861-3000
; TELEFAX: (202) 822-0944
; TELEX: 6714627 CUSH
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 440 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-061-062A-6

Query Match 56.1%; Score 46; DB 1; Length 440;
Best Local Similarity 50.0%; Pred. No. 12;
Matches 7; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 1 IQLKCSDSMPCKDI 14
|::|||:|:
Db 336 IRVCSDTAPCTDL 349

RESULT 5
US-08-061-062A-8
; Sequence 8, Application US/08061062A
; Patent No. 5550045
; GENERAL INFORMATION:
; APPLICANT: MUSTERS, WOUTER
; APPLICANT: STAM, HEIN
; APPLICANT: SUYKERBUYK, MARIA E.
; APPLICANT: VISSER, JACOB
; APPLICANT: VERBAKEL, Johannes M.
; TITLE OF INVENTION: CLONING AND EXPRESSION OF DNA
; TITLE OF INVENTION: ENCODING A RIPENING FORM OF A POLYPEPTIDE HAVING
; TITLE OF INVENTION: RHAMNOGALACTURONASE ACTIVITY
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CUSHMAN DARBY & CUSHMAN
; STREET: 1100 NEW YORK AVENUE, N.W.
; CITY: WASHINGTON, D.C.
; COUNTRY: U.S.A.
; ZIP: 20005-3918
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/061,062A
; FILING DATE: 14 MAY 1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: KOKULIS, PAUL N.
; REGISTRATION NUMBER: 16773
; REFERENCE/DOCKET NUMBER: 202390/R 7262 (V)

; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 861-3000
; TELEFAX: (202) 822-0944
; TELEX: 6714627 CUSH
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 440 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-061-062A-8

Query Match 56.1%; Score 46; DB 1; Length 440;
Best Local Similarity 50.0%; Pred. No. 12;
Matches 7; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 1 IQLKCSDSMPCKDI 14
|::|||:|:
Db 336 IRVCSDTAPCTDL 349

RESULT 6
US-08-536-150-6
; Sequence 6, Application US/08536150
; Patent No. 6013489
; GENERAL INFORMATION:
; APPLICANT: MUSTERS, WOUTER
; APPLICANT: STAM, HEIN
; APPLICANT: SUYKERBUYK, MARIA E.
; APPLICANT: VISSER, JACOB
; APPLICANT: VERBAKEL, Johannes M.
; TITLE OF INVENTION: CLONING AND EXPRESSION OF DNA
; TITLE OF INVENTION: ENCODING A RIPENING FORM OF A POLYPEPTIDE HAVING
; TITLE OF INVENTION: RHAMNOGALACTURONASE ACTIVITY
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CUSHMAN DARBY & CUSHMAN
; STREET: 1100 NEW YORK AVENUE, N.W.
; CITY: WASHINGTON, D.C.
; COUNTRY: U.S.A.
; ZIP: 20005-3918
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/536,150
; FILING DATE: 29-SEP-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/061,062
; FILING DATE: 14 MAY 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: KOKULIS, PAUL N.
; REGISTRATION NUMBER: 16773
; REFERENCE/DOCKET NUMBER: 202390/R 7262 (V)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 861-3000
; TELEFAX: (202) 822-0944
; TELEX: 6714627 CUSH
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 440 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-536-150-6

Query Match 56.1%; Score 46; DB 3; Length 440;
Best Local Similarity 50.0%; Pred. No. 12;
Matches 7; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

Oy 1 IQLKCSDSMPCKDI 14
Db 336 IRVVCSDTAPCTDL 349

RESULT 7
US-08-536-150-8
; Sequence 8, Application US/08536150
; Patent No. 6013489
; GENERAL INFORMATION:
; APPLICANT: MUSTERS, WOUTER
; APPLICANT: STAM, HEIN
; APPLICANT: SUYKERBUYK, MARIA E.
; APPLICANT: VISSER, JACOB
; APPLICANT: VERBAKEL, Johannes M.
; TITLE OF INVENTION: CLONING AND EXPRESSION OF DNA
; TITLE OF INVENTION: ENCODING A RIPENING FORM OF A POLYPEPTIDE HAVING
; TITLE OF INVENTION: RHAMNOGALACTURONASE ACTIVITY
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CUSHMAN DARY & CUSHMAN
; STREET: 1100 NEW YORK AVENUE, N.W.
; CITY: WASHINGTON, D.C.
; COUNTRY: U.S.A.
; ZIP: 20005-3918
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/536,150
; FILING DATE: 29-SEP-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/061,062
; FILING DATE: 14 MAY 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: KOKULIS, PAUL N.
; REGISTRATION NUMBER: 16773
; REFERENCE/DOCKET NUMBER: 202390/R 7262 (V)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 861-3000
; TELEFAX: (202) 822-0944
; TELEX: 6714627 CUSH
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 440 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-536-150-8

Query Match 56.1%; Score 46; DB 3; Length 440;
Best Local Similarity 50.0%; Pred. No. 12;
Matches 7; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

Oy 1 IQLKCSDSMPCKDI 14
Db 336 IRVVCSDTAPCTDL 349

RESULT 8
US-08-109-391A-4
; Sequence 4, Application US/08109391A
; Patent No. 5639876
; GENERAL INFORMATION:
; APPLICANT: Tripp, Cynthia A.
; APPLICANT: Frank, Glenn R.
; APPLICANT: Grieve, Robert B.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING NOVEL
; TITLE OF INVENTION: PARASITIC HELMINTH PROTEINS
; NUMBER OF SEQUENCES: 17

; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sheridan Ross & McIntosh
; STREET: 1700 Lincoln St., Suite 3500
; CITY: Denver
; STATE: CO
; COUNTRY: U.S.A.
; ZIP: 80203
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/109,391A
; FILING DATE: 19-AUG-1993
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Cornell, Gary J.
; REGISTRATION NUMBER: 33,020
; REFERENCE/DOCKET NUMBER: 2618-13
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 303/863-9700
; TELEFAX: 303/863-0223
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 208 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-109-391A-4

Query Match 51.2%; Score 42; DB 1; Length 208;
Best Local Similarity 63.6%; Pred. No. 23;
Matches 7; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Oy 2 QLKCSDSMPCK 12
Db 22 QCKCSDIAPCQ 32

RESULT 9
US-08-459-019A-4
; Sequence 4, Application US/08459019A
; Patent No. 5686080
; GENERAL INFORMATION:
; APPLICANT: Tripp, Cynthia A.
; APPLICANT: Frank, Glenn R.
; APPLICANT: Grieve, Robert B.
; TITLE OF INVENTION: NOVEL PARASITIC HELMINTH P4 PROTEINS
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sheridan Ross & McIntosh
; STREET: 1700 Lincoln Street, #3500
; CITY: Denver
; STATE: CO
; COUNTRY: U.S.A.
; ZIP: 80203
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/459,019A
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Cornell, Gary J.
; REGISTRATION NUMBER: 33,020
; REFERENCE/DOCKET NUMBER: 2618-13-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (303) 863-9700
; TELEFAX: (303) 863-0223

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; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 208 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-459-019A-4
Query Match 51.2%; Score 42; DB 1; Length 208;
Best Local Similarity 63.6%; Pred. No. 23;
Matches 7; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 2 QLKCDSDMPCK 12
DB 22 QCKCSDIAPCQ 32

RESULT 10
US-08-460-428A-4
; Sequence 4, Application US/08460428A
; Patent No. 5912337
; GENERAL INFORMATION:
; APPLICANT: Tripp, Cynthia A.
; APPLICANT: Frank, Glenn R.
; APPLICANT: Grieve, Robert B.
; TITLE OF INVENTION: NOVEL PARASITIC HELMINTH
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sheridan Ross P.C.
; STREET: 1700 Lincoln St., Suite 3500
; CITY: Denver
; STATE: CO
; COUNTRY: U.S.A.
; ZIP: 80203
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/460,428A
; FILING DATE: 02-JUN-1995
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Connell, Gary J.
; REGISTRATION NUMBER: 32,020
; REFERENCE/DOCKET NUMBER: 2618-13-3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 303/863-9700
; TELEFAX: 303/863-0223
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 208 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-460-428A-4
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/460,428A
; FILING DATE: 02-JUN-1995
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Connell, Gary J.
; REGISTRATION NUMBER: 32,020
; REFERENCE/DOCKET NUMBER: 2618-13-3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 303/863-9700
; TELEFAX: 303/863-0223
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 208 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-460-428A-4
Query Match 51.2%; Score 42; DB 2; Length 208;
Best Local Similarity 63.6%; Pred. No. 23;
Matches 7; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 2 QLKCDSDMPCK 12
DB 22 QCKCSDIAPCQ 32

RESULT 11
US-08-458-860A-4
; Sequence 4, Application US/08458860A
; Patent No. 6100390
; GENERAL INFORMATION:
; APPLICANT: Tripp, Cynthia A.
; APPLICANT: Frank, Glenn R.
; APPLICANT: Grieve, Robert B.
; TITLE OF INVENTION: NOVEL PARASITIC HELMINTH
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sheridan Ross P.C.
; STREET: 1700 Lincoln St., Suite 3500
; CITY: Denver
; STATE: CO
; COUNTRY: U.S.A.
; ZIP: 80203
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/458,860A
; FILING DATE: 02-JUN-1995
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Connell, Gary J.
; REGISTRATION NUMBER: 32,020
; REFERENCE/DOCKET NUMBER: 2618-13-2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 303/863-9700
; TELEFAX: 303/863-0223
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 208 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-458-860A-4
Query Match 51.2%; Score 42; DB 3; Length 208;
Best Local Similarity 63.6%; Pred. No. 23;
Matches 7; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 2 QLKCDSDMPCK 12
DB 22 QCKCSDIAPCQ 32

RESULT 12
US-08-164-839-4
; Sequence 4, Application US/08164839
; Patent No. 5514573
; GENERAL INFORMATION:
; APPLICANT: YASUEDA, HISASHI
; APPLICANT: NAKANISHI, KAZUO
; APPLICANT: MOTOKI, MASAO
; APPLICANT: NAGASE, KAZUO
; APPLICANT: MATSUI, HIROSHI
; TITLE OF INVENTION: GENE ENCODING TRANSGLUTAMINASE DERIVED
; FROM FISH
; NUMBER OF SEQUENCES: 72
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
; P.C.
; STREET: 1755 Jefferson Davis Highway, Fourth Floor
; CITY: Arlington
; STATE: Virginia
; COUNTRY: U.S.A.
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICANT: Frank, Glenn R.
; APPLICANT: Tripp, Cynthia A.
; APPLICANT: Grieve, Robert B.
; TITLE OF INVENTION: NOVEL PARASITIC HELMINTH
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sheridan Ross P.C.
; STREET: 1700 Lincoln St., Suite 3500
; CITY: Denver
; STATE: CO
; COUNTRY: U.S.A.
; ZIP: 80203
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/458,860A
; FILING DATE: 02-JUN-1995
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Connell, Gary J.
; REGISTRATION NUMBER: 32,020
; REFERENCE/DOCKET NUMBER: 2618-13-2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 303/863-9700
; TELEFAX: 303/863-0223
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 208 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-458-860A-4
Query Match 51.2%; Score 42; DB 3; Length 208;
Best Local Similarity 63.6%; Pred. No. 23;
Matches 7; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 2 QLKCDSDMPCK 12
DB 22 QCKCSDIAPCQ 32
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APPLICATION NUMBER: US/08/164,839
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/004,729
FILING DATE: 14-JAN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Obion, No. 5514573man F.
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 10-599-0
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703)412-3000
TELEFAX: (703)413-2220
TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 694 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-164-839-4

Query Match 51.2%; Score 42; DB 1; Length 694;
Best Local Similarity 66.7%; Pred. No. 78;
Matches 8; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 IQLKSDSMPC 12
DB 41 ITLQSDSLPPK 52

RESULT 13
US-08-583-799-4
Sequence 4, Application US/08583799
Patent No. 5607849
GENERAL INFORMATION:
APPLICANT: YASUEDA, HISASHI
APPLICANT: NAKANISHI, KAZUO
APPLICANT: MOTOKI, MASAO
APPLICANT: NAGASE, KAZUO
APPLICANT: MATSUI, HIROSHI
TITLE OF INVENTION: GENE ENCODING TRANSGLUTAMINASE DERIVED FROM FISH
NUMBER OF SEQUENCES: 72
CORRESPONDENCE ADDRESS:
ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.
STREET: 1755 Jefferson Davis Highway, Fourth Floor
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/583,799
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/004,729
FILING DATE: 14-JAN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Obion, No. 5607849man F.
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 10-599-0
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703)412-3000
TELEFAX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:
LENGTH: 694 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-583-799-4

Query Match 51.2%; Score 42; DB 1; Length 694;
Best Local Similarity 66.7%; Pred. No. 78;
Matches 8; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 IQLKSDSMPC 12
DB 41 ITLQSDSLPPK 52

RESULT 14
US-08-164-839-6
Sequence 6, Application US/08164839
Patent No. 5514573
GENERAL INFORMATION:
APPLICANT: YASUEDA, HISASHI
APPLICANT: NAKANISHI, KAZUO
APPLICANT: MOTOKI, MASAO
APPLICANT: NAGASE, KAZUO
APPLICANT: MATSUI, HIROSHI
TITLE OF INVENTION: GENE ENCODING TRANSGLUTAMINASE DERIVED FROM FISH
NUMBER OF SEQUENCES: 72
CORRESPONDENCE ADDRESS:
ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.
STREET: 1755 Jefferson Davis Highway, Fourth Floor
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/164,839
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/004,729
FILING DATE: 14-JAN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Obion, No. 5514573man F.
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 10-599-0
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703)412-3000
TELEFAX: (703)413-2220
TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 695 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-164-839-6

Query Match 51.2%; Score 42; DB 1; Length 695;
Best Local Similarity 66.7%; Pred. No. 78;
Matches 8; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 IQLKSDSMPC 12
DB 42 ITLQSDSLPPK 53

RESULT 15
US-08-583-799-6
; Sequence 6, Application US/08583799
; Patent No. 5607849
; GENERAL INFORMATION:
; APPLICANT: YASUEDA, HISASHI
; APPLICANT: NAKANISHI, KAZUO
; APPLICANT: MOTOKI, MASAO
; APPLICANT: NAGASE, KAZUO
; APPLICANT: MATSUI, HIROSHI
; TITLE OF INVENTION: GENE ENCODING TRANSGLUTAMINASE DERIVED
; FROM FISH
; NUMBER OF SEQUENCES: 72
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT,
; ADDRESS: P.C.
; STREET: 1755 Jefferson Davis Highway, Fourth Floor
; CITY: Arlington
; STATE: Virginia
; COUNTRY: U.S.A.
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/583,799
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/004,729
; FILING DATE: 14-JAN-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Oblon, No. 5607849man P.
; REGISTRATION NUMBER: 24,618
; REFERENCE/DOCKET NUMBER: 10-599-0
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)412-3000
; TELEFAX: (703)413-2220
; TELEX: 248855 OPAT UR
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 695 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
US-08-583-799-6

Query Match 51.2%; Score 42; DB 1; Length 695;
Best Local Similarity 66.7%; Pred. No. 78;
Matches 8; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 IOLKQSDSMPECK 12
Db 42 ITLQSDSLPPK 53

Search completed: April 19, 2004, 12:38:24
Job time : 14.6939 secs

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OM protein - protein search, using sw model

Run on: April 19, 2004, 11:29:35 ; Search time 35.3333 Seconds
(without alignments)
117.031 Million cell updates/sec

Title: US-09-308-027A-22

Perfect score: 73

Sequence: 1 CKDKLSDISLKLTLS 15

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Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

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Published Applications AA:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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| 1 | 73 | 100.0 | 15 | 14 | US-10-354-240-151 |
| 2 | 73 | 100.0 | 514 | 10 | US-09-847-208-69 |
| 3 | 51 | 69.9 | 15 | 14 | US-10-354-240-150 |
| 4 | 47.5 | 65.1 | 99 | 9 | US-09-864-761-36470 |
| 5 | 47.5 | 65.1 | 26926 | 9 | US-09-759-508B-2 |
| 6 | 45 | 61.6 | 1928 | 15 | US-10-369-493-22025 |
| 7 | 44 | 60.3 | 15 | 14 | US-10-354-240-152 |
| 8 | 41 | 56.2 | 151 | 12 | US-10-424-599-285317 |
| 9 | 40 | 54.8 | 167 | 13 | US-10-051-902-18 |
| 10 | 40 | 54.8 | 167 | 13 | US-10-051-909-18 |
| 11 | 40 | 54.8 | 307 | 12 | US-09-855-234B-4 |
| 12 | 40 | 54.8 | 407 | 12 | US-10-425-114-49353 |
| 13 | 39.5 | 54.1 | 186 | 12 | US-09-826-734-16 |
| 14 | 39 | 53.4 | 130 | 9 | US-09-815-242-12607 |
| 15 | 39 | 53.4 | 130 | 9 | US-09-815-242-12750 |

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| 16 | 53.4 | 623 | 15 | US-10-369-493-22157 | Sequence 22157, A |
| 17 | 53.4 | 813 | 15 | US-10-369-493-3604 | Sequence 3604, Ap |
| 18 | 52.1 | 75 | 12 | US-10-282-122A-54510 | Sequence 54510, A |
| 19 | 52.1 | 335 | 12 | US-10-424-599-143308 | Sequence 143308, |
| 20 | 52.1 | 431 | 10 | US-09-948-820-50 | Sequence 50, Appl |
| 21 | 52.1 | 590 | 9 | US-09-893-817-2 | Sequence 2, Appl |
| 22 | 52.1 | 1298 | 9 | US-09-893-817-24 | Sequence 24, Appl |
| 23 | 52.1 | 1298 | 12 | US-10-282-122A-58265 | Sequence 58265, A |
| 24 | 50.7 | 19 | 14 | US-10-225-567A-1563 | Sequence 1563, Ap |
| 25 | 50.7 | 123 | 12 | US-10-424-599-154895 | Sequence 154895, |
| 26 | 50.7 | 157 | 12 | US-10-424-599-214507 | Sequence 214507, |
| 27 | 50.7 | 183 | 14 | US-10-106-698-5416 | Sequence 5416, Ap |
| 28 | 50.7 | 255 | 10 | US-09-813-432-41 | Sequence 41, Appl |
| 29 | 50.7 | 255 | 12 | US-10-246-583-41 | Sequence 41, Appl |
| 30 | 50.7 | 255 | 15 | US-10-174-364-41 | Sequence 41, Appl |
| 31 | 50.7 | 272 | 12 | US-10-425-114-41381 | Sequence 41381, A |
| 32 | 50.7 | 275 | 14 | US-10-117-323-27 | Sequence 27, Appl |
| 33 | 50.7 | 278 | 10 | US-09-813-432-12 | Sequence 12, Appl |
| 34 | 50.7 | 278 | 10 | US-09-813-432-43 | Sequence 43, Appl |
| 35 | 50.7 | 278 | 12 | US-10-246-583-12 | Sequence 12, Appl |
| 36 | 50.7 | 278 | 12 | US-10-246-583-43 | Sequence 43, Appl |
| 37 | 50.7 | 278 | 15 | US-10-174-364-12 | Sequence 12, Appl |
| 38 | 50.7 | 278 | 15 | US-10-174-364-43 | Sequence 43, Appl |
| 39 | 50.7 | 318 | 12 | US-10-225-094-6 | Sequence 6, Appl |
| 40 | 50.7 | 318 | 15 | US-10-407-079-34 | Sequence 34, Appl |
| 41 | 50.7 | 322 | 14 | US-10-225-567A-384 | Sequence 384, App |
| 42 | 50.7 | 441 | 12 | US-10-225-094-4 | Sequence 4, Appl |
| 43 | 50.7 | 441 | 15 | US-10-407-079-32 | Sequence 32, Appl |
| 44 | 50.7 | 494 | 12 | US-10-225-094-2 | Sequence 2, Appl |
| 45 | 50.7 | 494 | 13 | US-10-050-726-2 | Sequence 2, Appl |

ALIGNMENTS

RESULT 1

US-10-354-240-151
; Sequence 151, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 151
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)-(15)
; OTHER INFORMATION: Cry2 peptide, Figure 2, Row 68
US-10-354-240-151

Query Match 100.0%; Score 73; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 6.3e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CKDKLSDISLKLTLS 15

DB 1 CKDKLSDISLKLTLS 15

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RESULT 2
US-09-847-208-69
; Sequence 69, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: CC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 69
; LENGTH: 514
; TYPE: PRT
; ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-69
Query Match 100.0%; Score 73; DB 10; Length 514;
Best Local Similarity 100.0%; Pred. No. 0.00033;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CKDKLSISIKLTS 15
Db 390 CKDKLSISIKLTS 404
RESULT 3
US-10-354-240-150
; Sequence 150, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akimori
; APPLICANT: Daijiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103DL
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 150
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)-(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 67
US-10-354-240-150
Query Match 69.9%; Score 51; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.041;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CKDKLSIS 10
Db 6 CKDKLSIS 15
RESULT 4
US-09-864-761-36470
; Sequence 36470, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
; FILE REFERENCE: Aeomica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 36470
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AC010680.3
; OTHER INFORMATION: EXPRESSED IN HEL100, SIGNAL = 0.98
; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 0.92
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 0.96
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 3.3
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.3
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 0.98
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1
; OTHER INFORMATION: EST HUMAN HIT: AA180780.1, EVALUATE 4.00e-14
; OTHER INFORMATION: SWISSPROT HIT: Q62234, EVALUATE 7.00e-10
US-09-864-761-36470
Query Match 65.1%; Score 47.5; DB 9; Length 99;
Best Local Similarity 70.6%; Pred. No. 1.4;
Matches 12; Conservative 0; Mismatches 2; Indels 3; Gaps 1;
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QY 1 CKDIKLSDI---SLKLT 14
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Db 5 CKDIKASDITKSKLT 21

RESULT 5
US-09-759-508B-2
; Sequence 2, Application US/09759508B
; Publication No. US20020182599A1
; GENERAL INFORMATION:
; APPLICANT: Fishman, Mark C.
; TITLE OF INVENTION: Methods for Diagnosing and Treating Heart Disease
; FILE REFERENCE: 00786/381002
; CURRENT APPLICATION NUMBER: US/09/759,508B
; CURRENT FILING DATE: 2001-01-12
; PRIOR APPLICATION NUMBER: US 60/175,787
; PRIOR FILING DATE: 2000-01-12
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 26926
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-759-508B-2

Query Match 65.1%; Score 47.5; DB 9; Length 26926;
Best Local Similarity 70.6%; Pred. No. 7.1e+02;
Matches 12; Conservative 0; Mismatches 2; Indels 3; Gaps 1;

QY 1 CKDIKLSDI---SLKLT 14
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Db 7986 CKDIKASDITKSKLT 8002

RESULT 6
US-10-369-493-22025
; Sequence 22025, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 22025
; LENGTH: 1928
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-10-369-493-22025

Query Match 61.6%; Score 45; DB 15; Length 1928;
Best Local Similarity 57.1%; Pred. No. 1e+02;
Matches 8; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 2 KDIKLSDIKLT 15
||:||||:|
Db 790 KDVKLNIMIKLTA 803

RESULT 7
US-10-354-240-152
; Sequence 152, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio

; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 152
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)-(15)
; OTHER INFORMATION: CryJ2 peptide, Figure 2, Row 69
US-10-354-240-152

Query Match 60.3%; Score 44; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.66;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 LSDISLKLT 15
|||||
Db 1 LSDISLKLT 10

RESULT 8
US-10-424-599-285317
; Sequence 285317, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 285317
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_99670C.1.pep
US-10-424-599-285317

Query Match 56.2%; Score 41; DB 12; Length 151;
Best Local Similarity 60.8%; Pred. No. 29;
Matches 9; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 CKDIKLSDIKLT 15
||:||||:|
Db 100 CKDIKSDISPAT 114

RESULT 9
US-10-051-902-18
; Sequence 18, Application US/10051902
; Publication No. US20020178468A1
; GENERAL INFORMATION:
; APPLICANT: Allen, Steve
; APPLICANT: Hitz, Bill
; APPLICANT: Kinney, Tony

APPLICANT: Tingey, Scott
; TITLE OF INVENTION: Plant Sugar Transport Proteins
; FILE REFERENCE: BB-1163
; CURRENT APPLICATION NUMBER: US/10/051,902
; CURRENT FILING DATE: 2002-01-17
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US/09/291,922
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-04-14
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 18
; LENGTH: 167
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (34)
; NAME/KEY: UNSURE
; LOCATION: (85)
; NAME/KEY: UNSURE
; LOCATION: (98)
; NAME/KEY: UNSURE
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; NAME/KEY: UNSURE
; LOCATION: (151)
US-10-051-902-18
Query Match 54.8%; Score 40; DB 13; Length 167;
Best Local Similarity 50.0%; Pred. No. 48;
Matches 6; Conservative 5; Mismatches 1; Indels 0; Gaps 0;
QY 2 KDIKLSDSLKL 13
Db 60 KDLKISDVKLEI 71
RESULT 10
US-10-051-909-18
; Sequence 18, Application US/10051909
; Publication No. US20020199217A1
; GENERAL INFORMATION:
; APPLICANT: Allen, Steve
; APPLICANT: Helentjaris, Tim
; APPLICANT: Hitz, Bill
; APPLICANT: Kinney, Tony
; APPLICANT: Tingey, Scott
; TITLE OF INVENTION: Plant Sugar Transport Proteins
; FILE REFERENCE: BB1163 US CIP
; CURRENT APPLICATION NUMBER: US/10/051,909
; CURRENT FILING DATE: 2002-01-17
; PRIOR APPLICATION NUMBER: 60/083,044
; PRIOR FILING DATE: April 24, 1998
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 18
; LENGTH: 167
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (34)
; NAME/KEY: UNSURE
; LOCATION: (85)
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; NAME/KEY: UNSURE
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; NAME/KEY: UNSURE
; LOCATION: (151)
US-10-051-909-18
Query Match 54.8%; Score 40; DB 13; Length 167;
Best Local Similarity 50.0%; Pred. No. 48;
Matches 6; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 2 KDIKLSDSLKL 13
Db 60 KDLKISDVKLEI 71
RESULT 11
US-09-855-294B-4
; Sequence 4, Application US/09855294B
; Publication No. US20020086331A1
; GENERAL INFORMATION:
; APPLICANT: Croce, Carlo
; APPLICANT: Brenner, Charles
; APPLICANT: Pekarski, Yuri
; TITLE OF INVENTION: CRYSTAL STRUCTURE OF WORM NITRIT
; FILE REFERENCE: CRO01.NP007
; CURRENT APPLICATION NUMBER: US/09/855,294B
; CURRENT FILING DATE: 2001-05-14
; PRIOR APPLICATION NUMBER: 60/204,713
; PRIOR FILING DATE: 2000-05-16
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 307
; TYPE: PRT
; ORGANISM: S. cerevisiae
US-09-855-294B-4
Query Match 54.8%; Score 40; DB 12; Length 307;
Best Local Similarity 53.3%; Pred. No. 95;
Matches 8; Conservative 2; Mismatches 5; Indels 0; Gaps 0;
QY 1 CKDIKLSDSLKL 15
Db 169 CYDIRPFPSLKLRS 183
RESULT 12
US-10-425-114-49353
; Sequence 49353, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53313) B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 49353
; LENGTH: 407
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB4746-071-D5_FLI.pep
US-10-425-114-49353
Query Match 54.8%; Score 40; DB 12; Length 407;
Best Local Similarity 50.0%; Pred. No. 1.3e+02;
Matches 6; Conservative 5; Mismatches 1; Indels 0; Gaps 0;
QY 2 KDIKLSDSLKL 13
Db 115 KDLKISDVKLEI 126
RESULT 13

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Query Match      53.4%; Score 39; DB 9; Length 130;
Best Local Similarity 63.6%; Pred.No. 54;
Matches       7; Conservative    0; Mismatches   0; Gaps     0;

QY              5 KLSDSLKLTS 15
DB             16 KMSDVSLSKLSA 26
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RESULT 15
US-09-815-242-12750
; Sequence 12750, Application US/09815242
; Patent No. US20020061569A1
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari L.
; APPLICANT: Zyskind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; FILE REFERENCE: ELITRA.011A
; CURRENT APPLICATION NUMBER: US/09/815.242
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12750
; LENGTH: 130
; TYPE: prf
; ORGANISM: Staphylococcus aureus
US-09-815-242-12750

Query Match      53.4%; Score 39; DB 9; Length 130;
Best Local Similarity 63.6%; Pred.No. 54;
Matches       7; Conservative    0; Mismatches   0; Gaps     0;

QY              5 KLSDSLKLTS 15
DB             16 KMSDVSLSKLSA 26
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Job time : 35.3333 secs
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OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:05 ; Search time 68.3163 Seconds
(without alignments)
60.529 Million cell updates/sec

Title: US-09-308-027A-21

Perfect score: 82

Sequence: 1 IQLKCSMPCKDIK 15

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

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- Published Applications AA:*
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 - 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*
 - 3: /cgn2_6/ptodata/2/pubpaa/US05_NEW_PUB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|----------------------|
| 1 | 82 | 100.0 | 15 | 14 | US-10-354-240-149 |
| 2 | 82 | 100.0 | 514 | 10 | US-09-847-208-69 |
| 3 | 55 | 67.1 | 15 | 14 | US-10-354-240-150 |
| 4 | 53 | 64.6 | 15 | 14 | US-10-354-240-148 |
| 5 | 53 | 64.6 | 272 | 12 | US-10-425-114-41381 |
| 6 | 50 | 61.0 | 393 | 12 | US-10-425-114-48708 |
| 7 | 50 | 61.0 | 539 | 12 | US-10-424-599-176466 |
| 8 | 47 | 57.3 | 192 | 12 | US-10-424-599-184382 |
| 9 | 46 | 56.1 | 309 | 12 | US-10-072-012-196 |
| 10 | 46 | 56.1 | 309 | 12 | US-10-072-012-567 |
| 11 | 46 | 56.1 | 309 | 12 | US-10-072-012-568 |
| 12 | 46 | 56.1 | 309 | 12 | US-10-072-012-569 |
| 13 | 46 | 56.1 | 309 | 12 | US-10-072-012-570 |
| 14 | 46 | 56.1 | 309 | 14 | US-10-288-252-2 |
| 15 | 46 | 56.1 | 314 | 12 | US-10-425-114-43341 |

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| 16 | 45 | 54.9 | 60 | 12 | US-10-424-599-241893 | |
| 17 | 45 | 54.9 | 282 | 12 | US-10-425-114-44437 | |
| 18 | 45 | 54.9 | 320 | 12 | US-10-424-599-204806 | |
| 19 | 44 | 53.7 | 319 | 12 | US-10-425-114-69361 | |
| 20 | 44 | 53.7 | 358 | 12 | US-10-425-114-69575 | |
| 21 | 44 | 53.7 | 496 | 12 | US-10-425-114-66151 | |
| 22 | 44 | 53.7 | 573 | 12 | US-10-425-114-43413 | |
| 23 | 43 | 52.4 | 84 | 12 | US-10-424-599-198909 | |
| 24 | 43 | 52.4 | 122 | 12 | US-10-424-599-248353 | |
| 25 | 43 | 52.4 | 186 | 12 | US-10-425-114-47078 | |
| 26 | 43 | 52.4 | 210 | 12 | US-10-424-599-202250 | |
| 27 | 43 | 52.4 | 443 | 12 | US-10-424-599-235443 | |
| 28 | 43 | 52.4 | 456 | 12 | US-10-425-114-44707 | |
| 29 | 43 | 52.4 | 914 | 15 | US-10-038-248A-83 | |
| 30 | 43 | 52.4 | 914 | 15 | US-10-107-782-83 | |
| 31 | 42 | 51.2 | 39 | 9 | US-09-814-122-74 | |
| 32 | 42 | 51.2 | 39 | 12 | US-10-649-857-74 | |
| 33 | 42 | 51.2 | 139 | 12 | US-10-424-599-205708 | |
| 34 | 42 | 51.2 | 409 | 12 | US-10-112-944-476 | |
| 35 | 40 | 48.8 | 98 | 12 | US-10-424-599-284471 | |
| 36 | 40 | 48.8 | 101 | 12 | US-10-425-114-40106 | |
| 37 | 40 | 48.8 | 196 | 12 | US-10-424-599-232966 | |
| 38 | 40 | 48.8 | 315 | 12 | US-10-425-114-50982 | |
| 39 | 40 | 48.8 | 425 | 12 | US-10-424-599-232965 | |
| 40 | 39 | 47.6 | 149 | 12 | US-10-425-114-72765 | |
| 41 | 39 | 47.6 | 221 | 12 | US-10-424-599-182809 | |
| 42 | 39 | 47.6 | 265 | 12 | US-10-424-599-182810 | |
| 43 | 39 | 47.6 | 380 | 13 | US-10-003-356-5 | |
| 44 | 39 | 47.6 | 383 | 12 | US-10-424-599-235337 | |
| 45 | 39 | 47.6 | 384 | 14 | US-10-309-851-38 | |

ALIGNMENTS

RESULT 1

US-10-354-240-149
; Sequence 149, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kano, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Diseases
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/Jp97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 149
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 66
US-10-354-240-149

Query Match 100.0%; Score 82; DB 14; Length 15;

Best Local Similarity 100.0%; Pred. No. 2.9e+06; Indels 0; Gaps 0;

Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IQLKCSMPCKDIK 15

DB 1 IQLKCSMPCKDIK 15


```
RESULT 2
US-09-847-208-69
; Sequence 69, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daoheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; PRIOR FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 69
; LENGTH: 514
; TYPE: PRT
; ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-69

Query Match 100.0%; Score 82; DB 10; Length 514;
Best Local Similarity 100.0%; Pred. No. 9e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IQLKSDSMPCKDIK 15
Db 380 IQLKSDSMPCKDIK 394

RESULT 3
US-10-354-240-150
; Sequence 150, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Diseases
; FILE REFERENCE: SPO-103DI
; CURRENT APPLICATION NUMBER: US/10/354,240
; PRIOR FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 150
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; NAME/KEY: MISC FEATURE
; LOCATION: (1)-(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 67
US-10-354-240-150

Query Match 67.1%; Score 55; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.053;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 SDSMPCKDIK 15
Db 1 SDSMPCKDIK 10

RESULT 4
US-10-354-240-148
; Sequence 148, Application US/10354240
```

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; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Diseases
; FILE REFERENCE: SPO-103DI
; CURRENT APPLICATION NUMBER: US/10/354,240
; PRIOR FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 148
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; NAME/KEY: MISC FEATURE
; LOCATION: (1)-(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 65
US-10-354-240-148

Query Match 64.6%; Score 53; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IQLKSDSMP 10
Db 6 IQLKSDSMP 15

RESULT 5
US-10-425-114-41381
; Sequence 41381, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kowalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 41381
; LENGTH: 272
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3069-045-D8_FLI.pep
US-10-425-114-41381

Query Match 64.6%; Score 53; DB 12; Length 272;
Best Local Similarity 46.7%; Pred. No. 1.8;
Matches 7; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 1 IQLKSDSMPCKDIK 15
Db 213 ISIACSDAVPCRDLE 227

RESULT 6
US-10-425-114-48708
; Sequence 48708, Application US/10425114
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/ Publication No. US20040034888A1

/ GENERAL INFORMATION:

/ APPLICANT: Liu, Jingdong

/ APPLICANT: Zhou, Yihua

/ APPLICANT: Kovalic, David K.

/ APPLICANT: Screen, Steven E.

/ APPLICANT: Tabaska, Jack E.

/ APPLICANT: Cao, Yongwei

/ TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
Plants and Uses Thereof for Plant Improvement

/ FILE REFERENCE: 38-21(53313)B

/ CURRENT APPLICATION NUMBER: US/10/425,114

/ CURRENT FILING DATE: 2003-04-28

/ NUMBER OF SEQ ID NOS: 73128

/ SEQ ID NO 48708

/ LENGTH: 393

/ TYPE: PRT

/ ORGANISM: Glycine max

/ FEATURE:

/ OTHER INFORMATION: Clone ID: 700725705_FLI.pap

/ US-10-425-114-48708

Query Match 61.0%; Score 50; DB 12; Length 393;

Best Local Similarity 50.0%; Pred. No. 7.9;

Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 IQLKCSDSMPCKDI 14

DB 324 VHFACSDSLFCVDV 337

RESULT 7

/ US-10-424-599-176466

/ Sequence 176466, Application US/10424599

/ Publication No. US20040031072A1

/ GENERAL INFORMATION:

/ APPLICANT: La Rosa Thomas J

/ APPLICANT: Kovalic David K

/ APPLICANT: Zhou Yihua

/ APPLICANT: Cao Yongwei

/ TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
Plants and Uses Thereof for Plant Improvement

/ FILE REFERENCE: 38-21(53223)B

/ CURRENT APPLICATION NUMBER: US/10/424,599

/ CURRENT FILING DATE: 2003-04-28

/ NUMBER OF SEQ ID NOS: 285684

/ SEQ ID NO 176466

/ LENGTH: 539

/ TYPE: PRT

/ ORGANISM: Glycine max

/ FEATURE:

/ NAME/KEY: unsure

/ LOCATION: (1)-(539)

/ OTHER INFORMATION: unsure at all Xaa locations

/ FEATURE:

/ OTHER INFORMATION: Clone ID: PAT_MRT3847_130367C.1.pap

/ US-10-424-599-176466

Query Match 61.0%; Score 50; DB 12; Length 539;

Best Local Similarity 50.0%; Pred. No. 11;

Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 IQLKCSDSMPCKDI 14

DB 470 VHFACSDSLFCVDV 483

RESULT 8

/ US-10-424-599-184382

/ Sequence 184382, Application US/10424599

/ Publication No. US20040031072A1

/ GENERAL INFORMATION:

/ APPLICANT: La Rosa Thomas J

/ APPLICANT: Kovalic David K

/ APPLICANT: Zhou Yihua

/ APPLICANT: Cao Yongwei

/ TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
Plants and Uses Thereof for Plant Improvement

/ FILE REFERENCE: 38-21(53223)B

/ CURRENT APPLICATION NUMBER: US/10/424,599

/ CURRENT FILING DATE: 2003-04-28

/ NUMBER OF SEQ ID NOS: 285684

/ SEQ ID NO 184382

/ LENGTH: 192

/ TYPE: PRT

/ ORGANISM: Glycine max

/ FEATURE:

/ NAME/KEY: unsure

/ LOCATION: (1)-(192)

/ OTHER INFORMATION: unsure at all Xaa locations

/ FEATURE:

/ OTHER INFORMATION: Clone ID: PAT_MRT3847_137512C.1.pap

/ US-10-424-599-184382

Query Match 57.3%; Score 47; DB 12; Length 192;

Best Local Similarity 42.9%; Pred. No. 12;

Matches 6; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 1 IQLKCSDSMPCKDI 14

DB 144 VDLRCSKQFPQDV 157

RESULT 9

/ US-10-072-012-196

/ Sequence 196, Application US/10072012

/ Publication No. US20040033493A1

/ GENERAL INFORMATION:

/ APPLICANT: Tchernev, Velizar

/ APPLICANT: Spytek, Kimberly

/ APPLICANT: Zernuseen, Bryan

/ APPLICANT: Patturajan, Meera

/ APPLICANT: Shimmets, Richard

/ APPLICANT: Li, Li

/ APPLICANT: Gangolli, Esha

/ APPLICANT: Padigaru, Muralidhara

/ APPLICANT: Anderson, David W.

/ APPLICANT: Rastelli, Luca

/ APPLICANT: Miller, Charles E.

/ APPLICANT: Gerlach, Valerie

/ APPLICANT: Taupier Jr, Raymond J.

/ APPLICANT: Gusev, Vladimir Y.

/ APPLICANT: Colman, Steven D.

/ APPLICANT: Wolenc, Adam R.

/ APPLICANT: Pena, Carol E. A

/ APPLICANT: Furtak, Katarzyna

/ APPLICANT: Grosse, William M.

/ APPLICANT: Alsobrook II, John P.

/ APPLICANT: Lepley, Denise M.

/ APPLICANT: Rieger, Daniel K.

/ APPLICANT: Bugeess, Catherine E.

/ TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same

/ FILE REFERENCE: 21402-258

/ CURRENT APPLICATION NUMBER: US/10/072,012

/ CURRENT FILING DATE: 2002-01-31

/ PRIOR APPLICATION NUMBER: 60/265,102

/ PRIOR FILING DATE: 2001-01-30

/ PRIOR APPLICATION NUMBER: 60/265,514

/ PRIOR FILING DATE: 2001-01-31

/ PRIOR APPLICATION NUMBER: 60/265,517

/ PRIOR FILING DATE: 2001-01-31

/ PRIOR APPLICATION NUMBER: 60/265,412

/ PRIOR FILING DATE: 2001-01-31

/ PRIOR APPLICATION NUMBER: 60/265,395

/ PRIOR FILING DATE: 2001-01-31

/ PRIOR APPLICATION NUMBER: 60/266,406

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; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: 60/266,767
; PRIOR FILING DATE: 2001-02-05
; PRIOR APPLICATION NUMBER: 60/267,057
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: 60/266,975
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: 60/267,459
; PRIOR FILING DATE: 2001-02-08
; PRIOR APPLICATION NUMBER: 60/267,459
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1391
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 196
; TYPE: PRT
; LENGTH: 309
; ORGANISM: Homo sapiens
US-10-072-012-196

```

```

Query Match          56.1%; Score 46; DB 12; Length 309;
Best Local Similarity 70.0%; Pred. No. 27;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      2 QLKCDSDMPC 11
       :|||
Db      4 ELQCPDSMPC 13

```

RESULT 10

```

US-10-072-012-567
; Sequence 567, Application US/10072012
; Publication No. US20040033493A1
; GENERAL INFORMATION:
; APPLICANT: Tchernev, Velizar
; APPLICANT: Spytek, Kimberly
; APPLICANT: Zehusen, Bryan
; APPLICANT: Patturajan, Meera
; APPLICANT: Shinkets, Richard
; APPLICANT: Li, Li
; APPLICANT: Gangolli, Esha
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Anderson, David W.
; APPLICANT: Rastelli, Luca
; APPLICANT: Miller, Charles E.
; APPLICANT: Gerlach, Valerie
; APPLICANT: Taupier Jr, Raymond J.
; APPLICANT: Gusev, Vladimir Y.
; APPLICANT: Colman, Steven D.
; APPLICANT: Wolenc, Adam R.
; APPLICANT: Pena, Carol E. A.
; APPLICANT: Grosse, William M.
; APPLICANT: Alsbrook II, John P.
; APPLICANT: Legley, Denise M.
; APPLICANT: Rieger, Daniel K.
; APPLICANT: Burgess, Catherine E.
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-258
; CURRENT APPLICATION NUMBER: US/10072,012
; PRIOR FILING DATE: 2002-01-31
; PRIOR APPLICATION NUMBER: 60/265,102
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: 60/265,514
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/265,517
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/265,412
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/265,395
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/266,406
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/267,057
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: 60/266,767
; PRIOR FILING DATE: 2001-02-05
; PRIOR APPLICATION NUMBER: 60/266,975

```

```

; PRIOR APPLICATION NUMBER: 60/267,057
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: 60/266,975
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: 60/267,459
; PRIOR FILING DATE: 2001-02-08
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1391
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 567
; TYPE: PRT
; LENGTH: 309
; ORGANISM: Homo sapiens
US-10-072-012-567

```

```

Query Match          56.1%; Score 46; DB 12; Length 309;
Best Local Similarity 70.0%; Pred. No. 27;
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

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QY      2 QLKCDSDMPC 11
       :|||
Db      4 ELQCPDSMPC 13

```

RESULT 11

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US-10-072-012-568
; Sequence 568, Application US/10072012
; Publication No. US20040033493A1
; GENERAL INFORMATION:
; APPLICANT: Tchernev, Velizar
; APPLICANT: Spytek, Kimberly
; APPLICANT: Zehusen, Bryan
; APPLICANT: Patturajan, Meera
; APPLICANT: Shinkets, Richard
; APPLICANT: Li, Li
; APPLICANT: Gangolli, Esha
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Anderson, David W.
; APPLICANT: Rastelli, Luca
; APPLICANT: Miller, Charles E.
; APPLICANT: Gerlach, Valerie
; APPLICANT: Taupier Jr, Raymond J.
; APPLICANT: Gusev, Vladimir Y.
; APPLICANT: Colman, Steven D.
; APPLICANT: Wolenc, Adam R.
; APPLICANT: Pena, Carol E. A.
; APPLICANT: Grosse, William M.
; APPLICANT: Alsbrook II, John P.
; APPLICANT: Legley, Denise M.
; APPLICANT: Rieger, Daniel K.
; APPLICANT: Burgess, Catherine E.
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-258
; CURRENT APPLICATION NUMBER: US/10072,012
; PRIOR FILING DATE: 2002-01-31
; PRIOR APPLICATION NUMBER: 60/265,102
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: 60/265,514
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/265,517
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/265,412
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/265,395
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/266,406
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: 60/266,767
; PRIOR FILING DATE: 2001-02-05
; PRIOR APPLICATION NUMBER: 60/267,057
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: 60/266,975

```

; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: 60/267,459
; PRIOR FILING DATE: 2001-02-08
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1391
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 568
; LENGTH: 309
; TYPE: PRT
; ORGANISM: Macaca fascicularis
US-10-072-012-568

Query Match 56.1%; Score 46; DB 12; Length 309;
Best Local Similarity 70.0%; Pred. No. 27;
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 QLKCDSPMPC 11
Db 4 ELQCPDSMPC 13

RESULT 12
US-10-072-012-569
; Sequence 569, Application US/10072012
; Publication No. US20040033493A1
; GENERAL INFORMATION:
; APPLICANT: Tchernev, Velizar
; APPLICANT: Spytek, Kimberly
; APPLICANT: Zerhusen, Bryan
; APPLICANT: Patturajan, Meera
; APPLICANT: Shimkets, Richard
; APPLICANT: Li, Li
; APPLICANT: Gangolli, Bsha
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Anderson, David W.
; APPLICANT: Rastelli, Luca
; APPLICANT: Miller, Charles E.
; APPLICANT: Gerlach, Valerie
; APPLICANT: Taupier Jr, Raymond J.
; APPLICANT: Gusev, Vladimir Y.
; APPLICANT: Colman, Steven D.
; APPLICANT: Wolenc, Adam R.
; APPLICANT: Pena, Carol E. A.
; APPLICANT: Furtak, Katarzyna
; APPLICANT: Grosse, William M.
; APPLICANT: Alsobrook II, John P.
; APPLICANT: Lepley, Denise M.
; APPLICANT: Rieger, Daniel K.
; APPLICANT: Burgess, Catherine E.
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-258
; CURRENT APPLICATION NUMBER: US/10/072,012
; CURRENT FILING DATE: 2002-01-31
; PRIOR APPLICATION NUMBER: 60/265,102
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: 60/265,514
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/265,517
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/265,412
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/265,395
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/266,406
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/266,767
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: 60/267,057
; PRIOR FILING DATE: 2001-02-05
; PRIOR APPLICATION NUMBER: 60/266,975
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: 60/266,975
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: 60/267,459
; PRIOR FILING DATE: 2001-02-08

; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1391
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 569
; LENGTH: 309
; TYPE: PRT
; ORGANISM: Macaca fascicularis
US-10-072-012-569

Query Match 56.1%; Score 46; DB 12; Length 309;
Best Local Similarity 70.0%; Pred. No. 27;
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 QLKCDSPMPC 11
Db 4 ELQCPDSMPC 13

RESULT 13
US-10-072-012-570
; Sequence 570, Application US/10072012
; Publication No. US20040033493A1
; GENERAL INFORMATION:
; APPLICANT: Tchernev, Velizar
; APPLICANT: Spytek, Kimberly
; APPLICANT: Zerhusen, Bryan
; APPLICANT: Patturajan, Meera
; APPLICANT: Shimkets, Richard
; APPLICANT: Li, Li
; APPLICANT: Gangolli, Bsha
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Anderson, David W.
; APPLICANT: Rastelli, Luca
; APPLICANT: Miller, Charles E.
; APPLICANT: Gerlach, Valerie
; APPLICANT: Taupier Jr, Raymond J.
; APPLICANT: Gusev, Vladimir Y.
; APPLICANT: Colman, Steven D.
; APPLICANT: Wolenc, Adam R.
; APPLICANT: Pena, Carol E. A.
; APPLICANT: Furtak, Katarzyna
; APPLICANT: Grosse, William M.
; APPLICANT: Alsobrook II, John P.
; APPLICANT: Lepley, Denise M.
; APPLICANT: Rieger, Daniel K.
; APPLICANT: Burgess, Catherine E.
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-258
; CURRENT APPLICATION NUMBER: US/10/072,012
; CURRENT FILING DATE: 2002-01-31
; PRIOR APPLICATION NUMBER: 60/265,102
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: 60/265,514
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/265,517
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/265,412
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/265,395
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/266,406
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: 60/266,767
; PRIOR FILING DATE: 2001-02-05
; PRIOR APPLICATION NUMBER: 60/267,057
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: 60/266,975
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: 60/267,459
; PRIOR FILING DATE: 2001-02-08
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1391
; SOFTWARE: Patentin Ver. 2.1

; SEQ ID NO 570
; LENGTH: 309
; TYPE: PRT
; ORGANISM: Macaca fascicularis
US-10-072-012-570

Query Match 56.1%; Score 46; DB 12; Length 309;
Best Local Similarity 70.0%; Pred. No. 27;
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 QLKCDSDMPC 11
; : : : : :
DB 4 ELQCPDSMPC 13

RESULT 14
US-10-288-252-2
; Sequence 2, Application US/10288252
; Publication No. US20030143686A1
; GENERAL INFORMATION:
; APPLICANT: INCYTE GENOMICS, INC.
; APPLICANT: LAL, Preeti G.
; APPLICANT: TANG, Y. Tom
; APPLICANT: YUE, Henry
; APPLICANT: BURFORD, Neil
; APPLICANT: GANDHI, Ameena R.
; APPLICANT: WARREN, Bridget A.
; APPLICANT: YAO, Monique G.
; APPLICANT: TRIBOULEY, Catherine M.
; APPLICANT: BAUGHN, Mariah R.
; APPLICANT: LEE, Ernestine A.
; APPLICANT: HAPALIA, April J.A.
; APPLICANT: LU, Yan
; APPLICANT: GRIFFIN, Jennifer A.
; APPLICANT: SANJANWALA, Madhu S.
; APPLICANT: DING, Li
; TITLE OF INVENTION: TRANSFERASES

; FILE REFERENCE: PI-0241 USA
; CURRENT APPLICATION NUMBER: US/10/288,252
; CURRENT FILING DATE: 2002-11-04
; PRIOR APPLICATION NUMBER: PCT US01/30424
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: US 60/252,819
; PRIOR FILING DATE: 2000-11-21
; PRIOR APPLICATION NUMBER: US 60/249,639
; PRIOR FILING DATE: 2000-11-16
; PRIOR APPLICATION NUMBER: US 60/247,931
; PRIOR FILING DATE: 2000-11-09
; PRIOR APPLICATION NUMBER: US 60/246,001
; PRIOR FILING DATE: 2000-11-03
; PRIOR APPLICATION NUMBER: US 60/244,025
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60/238,481
; PRIOR FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: US 60/236,523
; PRIOR FILING DATE: 2000-09-29
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: PERL Program
; SEQ ID NO 2
; LENGTH: 309
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20030143686A1 2792817CD1

US-10-288-252-2
Query Match 56.1%; Score 46; DB 14; Length 309;
Best Local Similarity 70.0%; Pred. No. 27;
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 QLKCDSDMPC 11
; : : : : :
DB 4 ELQCPDSMPC 13

DB 4 ELQCPDSMPC 13

RESULT 15

US-10-425-114-43341
; Sequence 43341, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:

; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei

; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement

; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114

; CURRENT FILING DATE: 2003-04-28

; NUMBER OF SEQ ID NOS: 73129

; SEQ ID NO 43341

; LENGTH: 314

; TYPE: PRT

; ORGANISM: Zea mays

; FEATURE:

; OTHER INFORMATION: Clone ID: LIB3067-033-B6_FLI.pep

US-10-425-114-43341

Query Match 56.1%; Score 46; DB 12; Length 314;

Best Local Similarity 50.0%; Pred. No. 27;

Matches 7; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 IQLKCDSDMPC 14

; : : : : :
DB 244 VHFACSDSLPCSGI 257

Search completed: April 19, 2004, 11:29:30

Job time : 68.3163 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:39 ; Search time 14.6939 Seconds
(without alignments)
52.702 Million cell updates/sec

Title: US-09-308-027A-20

Perfect score: 74

Sequence: 1 ATAAAIQLKCSNMP 15

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA*
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6: /cgn2_6/ptodata/2/1aa/backfiles1.pap:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|--|
| 1 | 74 | 100.0 | 127 | 3 | US-08-467-023-189 Sequence 189, App |
| 2 | 74 | 100.0 | 514 | 3 | US-08-467-023-134 Sequence 134, App |
| 3 | 41 | 55.4 | 441 | 4 | US-09-252-991A-18870 Sequence 18870, A |
| 4 | 41 | 55.4 | 694 | 1 | US-08-164-839-4 Sequence 4, Appli |
| 5 | 41 | 55.4 | 694 | 1 | US-08-583-799-4 Sequence 4, Appli |
| 6 | 41 | 55.4 | 695 | 1 | US-08-164-839-6 Sequence 6, Appli |
| 7 | 41 | 55.4 | 695 | 1 | US-08-583-799-6 Sequence 6, Appli |
| 8 | 39 | 52.7 | 145 | 4 | US-09-134-000C-3844 Sequence 3844, Ap |
| 9 | 38 | 51.4 | 188 | 4 | US-09-252-991A-24203 Sequence 24203, A |
| 10 | 37.5 | 50.7 | 196 | 4 | US-09-152-060-95 Sequence 95, Appl |
| 11 | 37 | 50.0 | 753 | 4 | US-09-328-352-5412 Sequence 5412, Ap |
| 12 | 36 | 48.6 | 182 | 4 | US-09-252-991A-20750 Sequence 20750, A |
| 13 | 36 | 48.6 | 358 | 4 | US-09-252-991A-20584 Sequence 20584, A |
| 14 | 36 | 48.6 | 440 | 1 | US-08-061-062A-6 Sequence 6, Appli |
| 15 | 36 | 48.6 | 440 | 1 | US-08-061-062A-8 Sequence 8, Appli |
| 16 | 36 | 48.6 | 440 | 3 | US-08-536-150-6 Sequence 6, Appli |
| 17 | 36 | 48.6 | 440 | 3 | US-08-536-150-8 Sequence 8, Appli |
| 18 | 36 | 48.6 | 457 | 6 | Patent No. 5447867 |
| 19 | 36 | 48.6 | 505 | 3 | US-08-993-260-1 Sequence 1, Appli |
| 20 | 36 | 48.6 | 505 | 3 | US-09-252-991A-18914 Sequence 18914, A |
| 21 | 36 | 48.6 | 1016 | 4 | US-08-938-105-3 Sequence 3, Appli |
| 22 | 36 | 48.6 | 1886 | 4 | US-09-310-187A-1 Sequence 1, Appli |
| 23 | 35 | 47.3 | 273 | 1 | US-08-118-270-63 Sequence 63, Appl |
| 24 | 35 | 47.3 | 273 | 5 | PCT-US93-08528-63 Sequence 63, Appl |
| 25 | 35 | 47.3 | 376 | 3 | US-09-200-965-2 Sequence 2, Appli |
| 26 | 35 | 47.3 | 481 | 4 | US-09-215-694-17 Sequence 17, Appl |
| 27 | 35 | 47.3 | 502 | 4 | US-09-252-991A-28736 Sequence 28736, A |

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|----|------|------|------|---|--|
| 28 | 35 | 47.3 | 788 | 2 | US-08-918-914-4 Sequence 4, Appli |
| 29 | 34.5 | 46.6 | 193 | 4 | US-09-252-991A-18021 Sequence 18021, A |
| 30 | 34 | 45.9 | 24 | 3 | US-09-136-251-8 Sequence 8, Appli |
| 31 | 34 | 45.9 | 24 | 4 | US-09-634-496-8 Sequence 8, Appli |
| 32 | 34 | 45.9 | 24 | 4 | US-09-635-145A-8 Sequence 8, Appli |
| 33 | 34 | 45.9 | 63 | 4 | US-09-497-491-47 Sequence 47, Appl |
| 34 | 34 | 45.9 | 143 | 4 | US-09-252-991A-29309 Sequence 29309, A |
| 35 | 34 | 45.9 | 167 | 4 | US-09-252-991A-21860 Sequence 21860, A |
| 36 | 34 | 45.9 | 209 | 4 | US-09-252-991A-24725 Sequence 24725, A |
| 37 | 34 | 45.9 | 363 | 4 | US-09-549-848B-39 Sequence 39, Appl |
| 38 | 34 | 45.9 | 480 | 4 | US-08-987-367-2 Sequence 2, Appli |
| 39 | 34 | 45.9 | 480 | 4 | US-08-987-367-4 Sequence 4, Appli |
| 40 | 34 | 45.9 | 575 | 4 | US-09-786-240-14 Sequence 14, Appl |
| 41 | 34 | 45.9 | 739 | 3 | US-09-136-251-2 Sequence 2, Appli |
| 42 | 34 | 45.9 | 739 | 4 | US-09-634-496-2 Sequence 2, Appli |
| 43 | 34 | 45.9 | 740 | 4 | US-09-635-145A-2 Sequence 2, Appli |
| 44 | 34 | 45.9 | 1040 | 4 | US-09-328-352-7238 Sequence 7238, Ap |
| 45 | 34 | 45.9 | 1118 | 4 | US-09-252-991A-24340 Sequence 24340, A |

ALIGNMENTS

RESULT 1
US-08-467-023-189
; Sequence 189, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian P.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Wei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 189:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 127 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal

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US-08-467-023-189
Query Match      100.0%; Score 74; DB 3; Length 127;
Best Local Similarity 100.0%; Pred. No. 2.2e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATAAAIQLKCSDSMP 15
    |||
Db 105 ATAAAIQLKCSDSMP 119
    |||

RESULT 2
US-08-467-023-134
Sequence 134, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffith, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D.;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.;
TITLE OF INVENTION: Allergenic Proteins And Peptides From
? TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 134:
SEQUENCE CHARACTERISTICS:
LENGTH: 514 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-467-023-134

Query Match      100.0%; Score 74; DB 3; Length 514;
Best Local Similarity 100.0%; Pred. No. 1.1e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATAAAIQLKCSDSMP 15
    |||
Db 375 ATAAAIQLKCSDSMP 389
    |||

RESULT 3
US-09-252-991A-18870
Sequence 18870, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
? TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 18870
LENGTH: 441
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-18870

Query Match      55.4%; Score 41; DB 4; Length 441;
Best Local Similarity 42.9%; Pred. No. 13;
Matches 6; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

QY 2 TAAAIQLKCSDSMP 15
    |||
Db 295 TAPLRLECADGLP 308
    |||

RESULT 4
US-08-164-839-4
Sequence 4, Application US/08164839
Patent No. 5514573
GENERAL INFORMATION:
APPLICANT: YASUEDA, HISASHI
APPLICANT: NAKANISHI, KAZUO
APPLICANT: MOTOKI, MASAO
APPLICANT: NAGASE, KAZUO
APPLICANT: MATSUI, HIROSHI
TITLE OF INVENTION: GENE ENCODING TRANSGLUTAMINASE DERIVED
? TITLE OF INVENTION: FROM FISH
NUMBER OF SEQUENCES: 72
CORRESPONDENCE ADDRESS:
ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
ADDRESS: P.C.
STREET: 1755 Jefferson Davis Highway, Fourth Floor
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/164,839
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/004,729
FILING DATE: 14-JAN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Oblon, No. 5514573man F.
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 10-599-0
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 412-3000
TELEFAX: (703) 413-2220
TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 694 amino acids
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US-08-467-023-189
Query Match      100.0%; Score 74; DB 3; Length 127;
Best Local Similarity 100.0%; Pred. No. 2.2e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATAAAIQLKCSDSMP 15
    |||
Db 105 ATAAAIQLKCSDSMP 119
    |||

RESULT 2
US-08-467-023-134
Sequence 134, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffith, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D.;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.;
TITLE OF INVENTION: Allergenic Proteins And Peptides From
? TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 134:
SEQUENCE CHARACTERISTICS:
LENGTH: 514 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-467-023-134

Query Match      100.0%; Score 74; DB 3; Length 514;
Best Local Similarity 100.0%; Pred. No. 1.1e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATAAAIQLKCSDSMP 15
    |||
Db 375 ATAAAIQLKCSDSMP 389
    |||

RESULT 3
US-09-252-991A-18870
Sequence 18870, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
? TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 18870
LENGTH: 441
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-18870

Query Match      55.4%; Score 41; DB 4; Length 441;
Best Local Similarity 42.9%; Pred. No. 13;
Matches 6; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

QY 2 TAAAIQLKCSDSMP 15
    |||
Db 295 TAPLRLECADGLP 308
    |||

RESULT 4
US-08-164-839-4
Sequence 4, Application US/08164839
Patent No. 5514573
GENERAL INFORMATION:
APPLICANT: YASUEDA, HISASHI
APPLICANT: NAKANISHI, KAZUO
APPLICANT: MOTOKI, MASAO
APPLICANT: NAGASE, KAZUO
APPLICANT: MATSUI, HIROSHI
TITLE OF INVENTION: GENE ENCODING TRANSGLUTAMINASE DERIVED
? TITLE OF INVENTION: FROM FISH
NUMBER OF SEQUENCES: 72
CORRESPONDENCE ADDRESS:
ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
ADDRESS: P.C.
STREET: 1755 Jefferson Davis Highway, Fourth Floor
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/164,839
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/004,729
FILING DATE: 14-JAN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Oblon, No. 5514573man F.
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 10-599-0
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 412-3000
TELEFAX: (703) 413-2220
TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 694 amino acids
```

TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-164-839-4

Query Match 55.4%; Score 41; DB 1; Length 694;
Best Local Similarity 63.6%; Pred. No. 22;
Matches 7; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 5 AIQLKCSDSMP 15
Db 40 SITLQCSDSL 50

RESULT 5

US-08-583-799-4
Sequence 4, Application US/08583799

Patent No. 5607849

GENERAL INFORMATION:

APPLICANT: YASUEDA, HISASHI

APPLICANT: NAKANISHI, KAZUO

APPLICANT: MOTOKI, MASAO

APPLICANT: NAGASE, KAZUO

APPLICANT: MATSUI, HIROSHI

TITLE OF INVENTION: GENE ENCODING TRANSGLUTAMINASE DERIVED

TITLE OF INVENTION: FROM FISH

NUMBER OF SEQUENCES: 72

CORRESPONDENCE ADDRESS:

ADDRESSEE: P.C.

STREET: 1755 Jefferson Davis Highway, Fourth Floor

CITY: Arlington

STATE: Virginia

COUNTRY: U.S.A.

ZIP: 22202

COMPUTER READABLE FORM:

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/583,799

FILING DATE:

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/004,729

FILING DATE: 14-JAN-1993

ATTORNEY/AGENT INFORMATION:

NAME: Oblon, No. 5607849man F.

REGISTRATION NUMBER: 24,618

REFERENCE/DOCKET NUMBER: 10-599-0

TELECOMMUNICATION INFORMATION:

TELEPHONE: (703)412-3000

TELEFAX: (703)413-2220

TELEX: 248855 OPAT UR

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 694 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-583-799-4

Query Match 55.4%; Score 41; DB 1; Length 694;
Best Local Similarity 63.6%; Pred. No. 22;
Matches 7; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 5 AIQLKCSDSMP 15
Db 40 SITLQCSDSL 50

RESULT 6

US-08-164-839-6
Sequence 6, Application US/08164839

Patent No. 5514573

GENERAL INFORMATION:

APPLICANT: YASUEDA, HISASHI

APPLICANT: NAKANISHI, KAZUO

APPLICANT: MOTOKI, MASAO

APPLICANT: NAGASE, KAZUO

APPLICANT: MATSUI, HIROSHI

TITLE OF INVENTION: GENE ENCODING TRANSGLUTAMINASE DERIVED

TITLE OF INVENTION: FROM FISH

NUMBER OF SEQUENCES: 72

CORRESPONDENCE ADDRESS:

ADDRESSEE: P.C.

STREET: 1755 Jefferson Davis Highway, Fourth Floor

CITY: Arlington

STATE: Virginia

COUNTRY: U.S.A.

ZIP: 22202

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/164,839

FILING DATE:

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/004,729

FILING DATE: 14-JAN-1993

ATTORNEY/AGENT INFORMATION:

NAME: Oblon, No. 5514573man F.

REGISTRATION NUMBER: 24,618

REFERENCE/DOCKET NUMBER: 10-599-0

TELECOMMUNICATION INFORMATION:

TELEPHONE: (703)412-3000

TELEFAX: (703)413-2220

TELEX: 248855 OPAT UR

INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:

LENGTH: 695 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-164-839-6

Query Match 55.4%; Score 41; DB 1; Length 695;
Best Local Similarity 63.6%; Pred. No. 22;
Matches 7; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 5 AIQLKCSDSMP 15
Db 41 SITLQCSDSL 51

RESULT 7

US-08-583-799-6

Sequence 6, Application US/08583799

Patent No. 5607849

GENERAL INFORMATION:

APPLICANT: YASUEDA, HISASHI

APPLICANT: NAKANISHI, KAZUO

APPLICANT: MOTOKI, MASAO

APPLICANT: NAGASE, KAZUO

APPLICANT: MATSUI, HIROSHI

TITLE OF INVENTION: GENE ENCODING TRANSGLUTAMINASE DERIVED

TITLE OF INVENTION: FROM FISH

NUMBER OF SEQUENCES: 72

CORRESPONDENCE ADDRESS:

ADDRESSEE: P.C.

STREET: 1755 Jefferson Davis Highway, Fourth Floor

CITY: Arlington

STATE: Virginia

COUNTRY: U.S.A.

ZIP: 22202

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/164,839

FILING DATE:

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/004,729

FILING DATE: 14-JAN-1993

ATTORNEY/AGENT INFORMATION:

NAME: Oblon, No. 5514573man F.

REGISTRATION NUMBER: 24,618

REFERENCE/DOCKET NUMBER: 10-599-0

TELECOMMUNICATION INFORMATION:

TELEPHONE: (703)412-3000

TELEFAX: (703)413-2220

TELEX: 248855 OPAT UR

INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:

LENGTH: 695 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-164-839-6

STREET: 1755 Jefferson Davis Highway, Fourth Floor
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/583,799
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/004,729
FILING DATE: 14-JAN-1993
ATTORNEY/AGENT INFORMATION:
NAME: OBLON, NO. 5607849man F.
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 10-599-0
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703)412-3000
TELEFAX: (703)413-2220
TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 695 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-583-799-6

Query Match 55.4%; Score 41; DB 1; Length 695;
Best Local Similarity 63.6%; Pred. No. 22;
Matches 7; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 5 A1QKCSDSMP 15
DB 41 SITLQCSLSP 51

RESULT 8

US-09-134-000C-3844
Sequence 3844, Application US/09134000C
Patent No. 6617156
GENERAL INFORMATION:
APPLICANT: Lynn Doucette-Stamm et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
FILE REFERENCE: 032796-032
CURRENT APPLICATION NUMBER: US/09/134,000C
PRIOR FILING DATE: 1998-08-13
PRIOR APPLICATION NUMBER: US 60/055,778
NUMBER OF SEQ ID NOS: 6812
SOFTWARE: Patent in version 3.1
SEQ ID NO 3844
LENGTH: 145
TYPE: PRT
ORGANISM: Enterococcus faecalis
US-09-134-000C-3844

Query Match 52.7%; Score 39; DB 4; Length 145;
Best Local Similarity 69.2%; Pred. No. 8.8;
Matches 9; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 2 TAAAIQLKCSDSM 14
DB 79 TAAIQLKTSDSL 91

RESULT 9

Query Match 50.7%; Score 37.5; DB 4; Length 196;

US-09-252-991A-24203
Sequence 24203, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 24203
LENGTH: 188
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-24203

Query Match 51.4%; Score 38; DB 4; Length 188;
Best Local Similarity 46.2%; Pred. No. 18;
Matches 6; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 3 AAATQLKCSDSMP 15
DB 31 AASVPRCADSYP 43

RESULT 10

US-09-152-060-95
Sequence 95, Application US/09152060
Patent No. 6448230
GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: 28 Human Secreted Proteins
FILE REFERENCE: P2003P1.US
CURRENT APPLICATION NUMBER: US/09/152,060
CURRENT FILING DATE: 1998-09-11
EARLIER APPLICATION NUMBER: PCT/US98/04858
EARLIER FILING DATE: 1998-03-12
EARLIER APPLICATION NUMBER: 60/040,762
EARLIER FILING DATE: 1997-03-14
EARLIER APPLICATION NUMBER: 60/040,710
EARLIER FILING DATE: 1997-03-14
EARLIER APPLICATION NUMBER: 60/050,934
EARLIER FILING DATE: 1997-05-30
EARLIER APPLICATION NUMBER: 60/048,100
EARLIER FILING DATE: 1997-05-30
EARLIER APPLICATION NUMBER: 60/048,357
EARLIER FILING DATE: 1997-05-30
EARLIER APPLICATION NUMBER: 60/048,189
EARLIER FILING DATE: 1997-05-30
EARLIER APPLICATION NUMBER: 60/057,765
EARLIER FILING DATE: 1997-09-05
EARLIER APPLICATION NUMBER: 60/048,970
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/068,368
EARLIER FILING DATE: 1997-12-19
NUMBER OF SEQ ID NOS: 118
SOFTWARE: Patent In Ver. 2.0
SEQ ID NO 95
LENGTH: 196
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: SITE
LOCATION: (141)
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-152-060-95

Query Match

Best Local Similarity 64.3%; Pred. No. 24;
Matches 9; Conservative 2; Mismatches 1; Gaps 1;
Indels 2; Indels 1; Gaps 1;
QY 3 AAATQLKCSDS-MP 15
DB 183 AAGLQCSKMP 196
RESULT 11
US-09-328-352-5412
; Sequence 5412, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; FILE REFERENCE: GTC99-03FA
; CURRENT FILING DATE: 1999-06-04
; CURRENT APPLICATION NUMBER: US/09/328,352
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 5412
; LENGTH: 753
; TYPE: PRT
; ORGANISM: Acinetobacter baumannii
US-09-328-352-5412
Query Match 50.0%; Score 37; DB 4; Length 753;
Best Local Similarity 53.3%; Pred. No. 1.4e+02;
Matches 8; Conservative 2; Mismatches 5; Indels 0; Gaps 0;
QY 1 ATAAAIQLKCSDSMP 15
DB 500 ARAEAVQKEQLMP 514
RESULT 12
US-09-252-991A-20750
; Sequence 20750, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT FILING DATE: 1999-02-18
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 20750
; LENGTH: 182
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-20750
Query Match 48.6%; Score 36; DB 4; Length 182;
Best Local Similarity 75.0%; Pred. No. 41;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 8 LKCSDSMP 15
DB 148 LSCSDSLP 155
RESULT 13
US-09-252-991A-20584
; Sequence 20584, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 20584
; LENGTH: 358
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-20584
Query Match 48.6%; Score 36; DB 4; Length 358;
Best Local Similarity 53.8%; Pred. No. 90;
Matches 7; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
QY 3 AAATQLKCSDSMP 15
DB 237 ASSPLKCSAMP 249
RESULT 14
US-08-061-062A-6
; Sequence 6, Application US/08061062A
; Patent No. 5550045
; GENERAL INFORMATION:
; APPLICANT: MUSTERS, WOUTER
; APPLICANT: STAM, HEIN
; APPLICANT: SUYKERBUIK, MARIA E.
; APPLICANT: VISSER, JACOB
; APPLICANT: VERBAKEL, Johannes M.
; TITLE OF INVENTION: CLONING AND EXPRESSION OF DNA
; TITLE OF INVENTION: ENCODING A RIPENING FORM OF A POLYPEPTIDE HAVING
; TITLE OF INVENTION: RHANNOGALACTURONASE ACTIVITY
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CUSHMAN DARBAY & CUSHMAN
; STREET: 1100 NEW YORK AVENUE, N.W.
; CITY: WASHINGTON, D.C.
; COUNTRY: U.S.A.
; ZIP: 20005-3918
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA: US/08/061,062A
; APPLICATION NUMBER: US/08/061,062A
; FILING DATE: 14 MAY 1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: KOKULIS, PAUL N.
; REGISTRATION NUMBER: 16773
; REFERENCE/DOCKET NUMBER: 202390/R 7262 (V)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 861-3000
; TELEFAX: (202) 822-0944
; TELEX: 6714627 CUSH
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 440 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-061-062A-6
Query Match 48.6%; Score 36; DB 1; Length 440;
Best Local Similarity 46.7%; Pred. No. 1.1e+02;
Matches 7; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY 1 ATAAAIQLKSDSMP 15
|||::|||:
DB 331 ATRPFRVVCSDTAP 345

RESULT 15
US-08-061-062A-8
; Sequence 8, Application US/08061062A
; Patent No. 5550045
; GENERAL INFORMATION:
; APPLICANT: MUSTERS, WOUTER
; APPLICANT: STAM, HEIN
; APPLICANT: SUYKERBUYK, MARIA E.
; APPLICANT: VISSER, JACOB
; APPLICANT: VERBAKEL, Johannes M.
; TITLE OF INVENTION: CLONING AND EXPRESSION OF DNA
; TITLE OF INVENTION: ENCODING A RIPENING FORM OF A POLYPEPTIDE HAVING
; TITLE OF INVENTION: RHANOGALACTURONASE ACTIVITY
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CUSHMAN DARBY & CUSHMAN
; STREET: 1100 NEW YORK AVENUE, N.W.
; CITY: WASHINGTON, D.C.
; COUNTRY: U.S.A.
; ZIP: 20005-3918
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/061.062A
; FILING DATE: 14 MAY 1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: KOKULIS, PAUL N.
; REGISTRATION NUMBER: 16773
; REFERENCE/DOCKET NUMBER: 202390/R 7262 (V)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 861-3000
; TELEFAX: (202) 822-0944
; TELEX: 6714627 CUSH
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 440 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-061-062A-8

Query Match 48.6%; Score 36; DB 1; Length 440;
Best Local Similarity 46.7%; Pred. No. 1.1e+02;
Matches 7; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY 1 ATAAAIQLKSDSMP 15
|||::|||:
DB 331 ATRPFRVVCSDTAP 345

Search completed: April 19, 2004, 12:38:24
Job time : 15.6939 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:05 ; Search time 68.3163 Seconds
(without alignments)
60.529 Million cell updates/sec

Title: US-09-308-027A-20
Perfect score: 74
Sequence: 1 ATAAAIQLKCSDSMP 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*
1: /cgn2_6/prodata/2/pubpaa/US07_PUBCOMB.pep.*
2: /cgn2_6/prodata/2/pubpaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/prodata/2/pubpaa/US05_NEW_PUB.pep.*
4: /cgn2_6/prodata/2/pubpaa/US06_PUBCOMB.pep.*
5: /cgn2_6/prodata/2/pubpaa/US07_NEW_PUB.pep.*
6: /cgn2_6/prodata/2/pubpaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/prodata/2/pubpaa/US08_NEW_PUB.pep.*
8: /cgn2_6/prodata/2/pubpaa/US08_PUBCOMB.pep.*
9: /cgn2_6/prodata/2/pubpaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/prodata/2/pubpaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/prodata/2/pubpaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/prodata/2/pubpaa/US09C_NEW_PUB.pep.*
13: /cgn2_6/prodata/2/pubpaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/prodata/2/pubpaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/prodata/2/pubpaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/prodata/2/pubpaa/US10_NEW_PUB.pep.*
17: /cgn2_6/prodata/2/pubpaa/US60_NEW_PUB.pep.*
18: /cgn2_6/prodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|----|----------------------|
| 1 | 74 | 100.0 | 15 | 14 | US-10-354-240-148 |
| 2 | 74 | 100.0 | 514 | 10 | US-09-847-208-69 |
| 3 | 53 | 71.6 | 15 | 14 | US-10-354-240-149 |
| 4 | 48 | 64.9 | 15 | 14 | US-10-354-240-147 |
| 5 | 44 | 59.5 | 272 | 12 | US-10-425-114-41381 |
| 6 | 44 | 59.5 | 566 | 15 | US-10-369-493-3585 |
| 7 | 43 | 58.1 | 210 | 12 | US-10-424-599-202250 |
| 8 | 43 | 58.1 | 282 | 12 | US-10-425-114-44437 |
| 9 | 43 | 58.1 | 320 | 12 | US-10-424-599-204806 |
| 10 | 41 | 55.4 | 223 | 9 | US-09-925-301-1280 |
| 11 | 41 | 55.4 | 626 | 15 | US-10-369-493-12917 |
| 12 | 40 | 54.1 | 309 | 12 | US-10-072-012-196 |
| 13 | 40 | 54.1 | 309 | 12 | US-10-072-012-567 |
| 14 | 40 | 54.1 | 309 | 12 | US-10-072-012-568 |
| 15 | 40 | 54.1 | 309 | 12 | US-10-072-012-569 |

| | | | | | | |
|----|------|------|-----|----|----------------------|-------------------|
| 16 | 40 | 54.1 | 309 | 12 | US-10-072-012-570 | Sequence 570, App |
| 17 | 40 | 54.1 | 309 | 14 | US-10-288-252-2 | Sequence 2, Appl |
| 18 | 40 | 54.1 | 485 | 15 | US-10-369-493-17279 | Sequence 17279, A |
| 19 | 39 | 52.7 | 285 | 12 | US-10-282-122A-42579 | Sequence 42579, A |
| 20 | 38 | 51.4 | 207 | 9 | US-09-738-626-6432 | Sequence 6432, Ap |
| 21 | 38 | 51.4 | 248 | 12 | US-10-425-114-56861 | Sequence 56861, A |
| 22 | 38 | 51.4 | 319 | 12 | US-10-425-114-69361 | Sequence 69361, A |
| 23 | 37.5 | 50.7 | 196 | 9 | US-09-853-161-95 | Sequence 95, Appl |
| 24 | 37.5 | 50.7 | 196 | 9 | US-09-852-659A-95 | Sequence 95, Appl |
| 25 | 37.5 | 50.7 | 196 | 9 | US-09-852-797-95 | Sequence 95, Appl |
| 26 | 37.5 | 50.7 | 196 | 12 | US-10-058-993-95 | Sequence 95, Appl |
| 27 | 37.5 | 50.7 | 320 | 15 | US-10-369-493-22984 | Sequence 22984, A |
| 28 | 37 | 50.0 | 96 | 14 | US-10-029-386-29187 | Sequence 29187, A |
| 29 | 37 | 50.0 | 110 | 12 | US-10-424-599-226366 | Sequence 226366, |
| 30 | 37 | 50.0 | 150 | 14 | US-10-017-161-1474 | Sequence 1474, Ap |
| 31 | 37 | 50.0 | 162 | 9 | US-09-747-155-335 | Sequence 335, App |
| 32 | 37 | 50.0 | 315 | 12 | US-10-425-114-50982 | Sequence 50982, A |
| 33 | 37 | 50.0 | 320 | 12 | US-10-092-900A-188 | Sequence 188, App |
| 34 | 37 | 50.0 | 320 | 15 | US-10-292-798-1184 | Sequence 1184, Ap |
| 35 | 37 | 50.0 | 324 | 10 | US-09-864-029-10 | Sequence 10, Appl |
| 36 | 37 | 50.0 | 345 | 9 | US-09-886-055-293 | Sequence 293, App |
| 37 | 37 | 50.0 | 345 | 10 | US-09-864-029-8 | Sequence 8, Appl |
| 38 | 37 | 50.0 | 345 | 10 | US-09-804-291-293 | Sequence 293, App |
| 39 | 37 | 50.0 | 345 | 12 | US-10-343-650A-642 | Sequence 642, App |
| 40 | 37 | 50.0 | 345 | 15 | US-10-387-629-186 | Sequence 106, App |
| 41 | 37 | 50.0 | 333 | 12 | US-10-425-114-48708 | Sequence 48708, A |
| 42 | 37 | 50.0 | 493 | 12 | US-10-282-122A-67622 | Sequence 67622, A |
| 43 | 37 | 50.0 | 539 | 12 | US-10-424-599-176466 | Sequence 176466, |
| 44 | 37 | 50.0 | 541 | 14 | US-10-128-714-3389 | Sequence 3389, Ap |
| 45 | 37 | 50.0 | 564 | 14 | US-10-128-714-8389 | Sequence 8389, Ap |

ALIGNMENTS

RESULT 1
US-10-354-240-148
; Sequence 148, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akino
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Diseases
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 148
; LENGTH: 15
; TYPE: PPT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 65
US-10-354-240-148

Query Match 100.0% Score 74; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 2.7e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATAAAIQLKCSDSMP 15

Db 1 ATAAAIQLKCSDSMP 15

RESULT 2

US-09-847-208-69
; Sequence 69, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UCS7.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-03-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 69
; TYPE: PRT
; LENGTH: 514
; ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-69

Query Match 100.0%; Score 74; DB 10; Length 514;
Best Local Similarity 100.0%; Pred. No. 9.9e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATAAAIQLKCDSDMP 15
|||
Db 375 ATAAAIQLKCDSDMP 389

RESULT 3

US-10-354-240-149
; Sequence 149, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akimori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Diseases
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 149
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 66
US-10-354-240-149

Query Match 71.6%; Score 53; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 IQLKCDSDMP 15
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Db 1 IQLKCDSDMP 10

RESULT 4

US-10-354-240-147
; Sequence 147, Application US/10354240

; Publication No. US20030185847A1

; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akimori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Diseases
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 147
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 64
US-10-354-240-147

Query Match 64.9%; Score 48; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATAAAIQLKC 10
|||
Db 6 ATAAAIQLKC 15

RESULT 5

US-10-425-114-41381
; Sequence 41381, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 41381
; LENGTH: 272
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3069-045-D8_FLI.pep
US-10-425-114-41381

Query Match 59.5%; Score 44; DB 12; Length 272;
Best Local Similarity 53.3%; Pred. No. 11;
Matches 8; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 ATAAAIQLKCDSDMP 15
|||
Db 208 ATPOAISIGSDAVP 222

RESULT 6

US-10-369-493-3585
; Sequence 3585, Application US/10369493

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; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 3585
; LENGTH: 566
; TYPE: PRT
; ORGANISM: Neurospora crassa
US-10-369-493-3585

Query Match      59.5%; Score 44; DB 15; Length 566;
Best Local Similarity 53.3%; Pred. No. 24;
Matches      8; Conservative      2; Mismatches      5; Indels      0; Gaps      0;

Qy      1 ATAAIQLKCSMP 15
Db      337 ATGATVQSTCSILP 351

RESULT 7
US-10-424-599-202250
; Sequence 202250, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 202250
; LENGTH: 210
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(210)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_24657C.1.pep
US-10-424-599-202250

Query Match      58.1%; Score 43; DB 12; Length 210;
Best Local Similarity 53.3%; Pred. No. 13;
Matches      8; Conservative      2; Mismatches      5; Indels      0; Gaps      0;

Qy      1 ATAAIQLKCSMP 15
Db      134 ATAAIQLKCSMP 148

RESULT 8
US-10-425-114-44437
; Sequence 44437, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua

; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53313)B
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 44437
; LENGTH: 282
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: 700992481_FLI.pep
US-10-425-114-44437

Query Match      58.1%; Score 43; DB 12; Length 282;
Best Local Similarity 57.1%; Pred. No. 18;
Matches      8; Conservative      3; Mismatches      3; Indels      0; Gaps      0;

Qy      2 TAAAIQLKCSMP 15
Db      205 SAKAIFDCSDSVP 218

RESULT 9
US-10-424-599-204806
; Sequence 204806, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 204806
; LENGTH: 320
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_26969C.1.pep
US-10-424-599-204806

Query Match      58.1%; Score 43; DB 12; Length 320;
Best Local Similarity 57.1%; Pred. No. 20;
Matches      8; Conservative      3; Mismatches      3; Indels      0; Gaps      0;

Qy      2 TAAAIQLKCSMP 15
Db      243 SAKAIFDCSDSVP 256

RESULT 10
US-09-925-301-1280
; Sequence 1280, Application US/09925301
; Patent No. US20020052308A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA106
; CURRENT APPLICATION NUMBER: US/09/925,301
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05882
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
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; NUMBER OF SEQ ID NOS: 1694
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1280
; LENGTH: 223
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (216)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (217)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-925-301-1280

Query Match          55.4%; Score 41; DB 9; Length 223;
Best Local Similarity 61.5%; Pred. No. 32;
Matches 8; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 3 AAATQLKCDSDMP 15
   |||||
Db 87 AAATSACSSSLP 99

RESULT 11
US-10-369-493-12917
; Sequence 12917, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; PRIOR FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 12917
; LENGTH: 626
; TYPE: PRT
; ORGANISM: Aspergillus nidulans
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(626)
; OTHER INFORMATION: unsure at all Xaa locations
US-10-369-493-12917

Query Match          55.4%; Score 41; DB 15; Length 626;
Best Local Similarity 66.7%; Pred. No. 91;
Matches 8; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 ATAAAIQLKCDSD 12
   |||||
Db 376 ATGAIVQSTCDSD 387

RESULT 12
US-10-072-012-196
; Sequence 196, Application US/10072012
; Publication No. US20040033493A1
; GENERAL INFORMATION:
; APPLICANT: Tchernev, Velizar
; APPLICANT: Spytek, Kimberly
; APPLICANT: Zerhusen, Bryan
; APPLICANT: Patturajan, Meera
; APPLICANT: Shinkets, Richard
; APPLICANT: Li, Li
; APPLICANT: Gangolli, Esha
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Anderson, David W.
; APPLICANT: Rastelli, Luca

; NUMBER OF SEQ ID NOS: 1694
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1280
; LENGTH: 223
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (216)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (217)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-925-301-1280

Query Match          55.4%; Score 41; DB 9; Length 223;
Best Local Similarity 61.5%; Pred. No. 32;
Matches 8; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 3 AAATQLKCDSDMP 15
   |||||
Db 87 AAATSACSSSLP 99

RESULT 11
US-10-369-493-12917
; Sequence 12917, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; PRIOR FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 12917
; LENGTH: 626
; TYPE: PRT
; ORGANISM: Aspergillus nidulans
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(626)
; OTHER INFORMATION: unsure at all Xaa locations
US-10-369-493-12917

Query Match          55.4%; Score 41; DB 15; Length 626;
Best Local Similarity 66.7%; Pred. No. 91;
Matches 8; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 ATAAAIQLKCDSD 12
   |||||
Db 376 ATGAIVQSTCDSD 387

RESULT 12
US-10-072-012-196
; Sequence 196, Application US/10072012
; Publication No. US20040033493A1
; GENERAL INFORMATION:
; APPLICANT: Tchernev, Velizar
; APPLICANT: Spytek, Kimberly
; APPLICANT: Zerhusen, Bryan
; APPLICANT: Patturajan, Meera
; APPLICANT: Shinkets, Richard
; APPLICANT: Li, Li
; APPLICANT: Gangolli, Esha
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Anderson, David W.
; APPLICANT: Rastelli, Luca

; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Anderson, David W.
; APPLICANT: Rastelli, Luca
; APPLICANT: Miller, Charles E.
; APPLICANT: Gerlach, Valerie
; APPLICANT: Taupier Jr, Raymond J.
; APPLICANT: Gusev, Vladimir Y.
; APPLICANT: Colman, Steven D.
; APPLICANT: Wolenc, Adam R.
; APPLICANT: Pena, Carol E. A
; APPLICANT: Furtak, Katarzyna
; APPLICANT: Grose, William M.
; APPLICANT: Alsbrook II, John P.
; APPLICANT: Lepley, Denise M.
; APPLICANT: Rieger, Daniel K.
; APPLICANT: Burgess, Catherine E.
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-258
; CURRENT APPLICATION NUMBER: US/10/072,012
; CURRENT FILING DATE: 2002-01-31
; PRIOR APPLICATION NUMBER: 60/265,102
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: 60/265,514
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/265,517
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/265,412
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/265,395
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/266,406
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: 60/266,767
; PRIOR FILING DATE: 2001-02-05
; PRIOR APPLICATION NUMBER: 60/267,057
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: 60/266,975
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: 60/267,459
; PRIOR FILING DATE: 2001-02-08
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1391
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 196
; LENGTH: 309
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-072-012-196

Query Match          54.1%; Score 40; DB 12; Length 309;
Best Local Similarity 63.6%; Pred. No. 66;
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 5 ATQLKCDSDMP 15
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Db 2 ATQLQCDSDMP 12

RESULT 13
US-10-072-012-567
; Sequence 567, Application US/10072012
; Publication No. US20040033493A1
; GENERAL INFORMATION:
; APPLICANT: Tchernev, Velizar
; APPLICANT: Spytek, Kimberly
; APPLICANT: Zerhusen, Bryan
; APPLICANT: Patturajan, Meera
; APPLICANT: Shinkets, Richard
; APPLICANT: Li, Li
; APPLICANT: Gangolli, Esha
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Anderson, David W.
; APPLICANT: Rastelli, Luca

```


APPLICANT: Pena, Carol E. A
APPLICANT: Furtak, Katarzyna
APPLICANT: Grosse, William M.
APPLICANT: Alsbrook II, John P.
APPLICANT: Lepley, Denise M.
APPLICANT: Rieger, Daniel K.
APPLICANT: Burgess, Catherine E.
TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
FILE REFERENCE: 21402-258
CURRENT APPLICATION NUMBER: US/10/072,012
PRIOR FILING DATE: 2002-01-31
PRIOR APPLICATION NUMBER: 60/265,102
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: 60/265,514
PRIOR FILING DATE: 2001-01-31
PRIOR APPLICATION NUMBER: 60/265,517
PRIOR FILING DATE: 2001-01-31
PRIOR APPLICATION NUMBER: 60/265,412
PRIOR FILING DATE: 2001-01-31
PRIOR APPLICATION NUMBER: 60/265,395
PRIOR FILING DATE: 2001-01-31
PRIOR APPLICATION NUMBER: 60/266,406
PRIOR FILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: 60/266,767
PRIOR FILING DATE: 2001-02-05
PRIOR APPLICATION NUMBER: 60/267,057
PRIOR FILING DATE: 2001-02-07
PRIOR APPLICATION NUMBER: 60/266,975
PRIOR FILING DATE: 2001-02-07
PRIOR APPLICATION NUMBER: 60/267,459
PRIOR FILING DATE: 2001-02-08
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 1391
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 569
LENGTH: 309
TYPE: PRT
ORGANISM: Macaca fascicularis
US-10-072-012-569

Query Match 54.1%; Score 40; DB 12; Length 309;
Best Local Similarity 63.6%; Pred. No. 66;
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
Qy 5 AIQLKCSDSMP 15
Db 2 ATELQCPDSMP 12

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Job time : 68.3163 secs

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OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:39 ; Search time 14.6939 Seconds
(without alignments)
52.702 Million cell updates/sec

Title: US-09-308-027A-19

Perfect score: 76

Sequence: 1 SRAEVSIVHNGAKF 15

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Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Issued Patents AA:*

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3: /cgn2_6/protdata/2/aaa/6A_COMB.pep:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
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| 1 | 76 | 100.0 | 127 | 3 | US-08-467-023-189 |
| 2 | 76 | 100.0 | 514 | 3 | US-08-467-023-134 |
| 3 | 41 | 53.9 | 159 | 4 | US-09-198-452A-462 |
| 4 | 39 | 51.3 | 423 | 4 | US-09-543-681A-6728 |
| 5 | 38 | 50.0 | 411 | 4 | US-09-134-001C-3121 |
| 6 | 38 | 50.0 | 665 | 4 | US-09-328-352-6983 |
| 7 | 37 | 48.7 | 153 | 4 | US-09-540-236-3643 |
| 8 | 37 | 48.7 | 231 | 4 | US-09-252-991A-22663 |
| 9 | 37 | 48.7 | 400 | 2 | US-08-624-601-8 |
| 10 | 36 | 47.4 | 132 | 4 | US-09-134-001C-3602 |
| 11 | 36 | 47.4 | 150 | 3 | US-08-676-444-46 |
| 12 | 36 | 47.4 | 182 | 4 | US-09-543-681A-5698 |
| 13 | 36 | 47.4 | 244 | 4 | US-09-252-991A-22858 |
| 14 | 36 | 47.4 | 363 | 1 | US-08-488-961-4 |
| 15 | 36 | 47.4 | 363 | 3 | US-08-973-297-4 |
| 16 | 36 | 47.4 | 363 | 4 | US-09-632-957-4 |
| 17 | 36 | 47.4 | 363 | 5 | PCP-US96-06511-4 |
| 18 | 36 | 47.4 | 474 | 4 | US-09-489-039A-13140 |
| 19 | 36 | 47.4 | 485 | 4 | US-09-489-039A-8544 |
| 20 | 36 | 47.4 | 493 | 4 | US-09-543-681A-5068 |
| 21 | 36 | 47.4 | 592 | 2 | US-08-599-171A-30 |
| 22 | 36 | 47.4 | 592 | 2 | US-08-646-590B-30 |
| 23 | 36 | 47.4 | 592 | 3 | US-09-069-226-30 |
| 24 | 36 | 47.4 | 592 | 3 | US-09-412-184-30 |
| 25 | 36 | 47.4 | 613 | 4 | US-09-328-352-5066 |
| 26 | 36 | 47.4 | 615 | 3 | US-08-676-444-44 |
| 27 | 36 | 47.4 | 697 | 4 | US-09-486-072-3 |

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| 28 | 35.5 | 46.7 | 290 | 4 | US-09-134-001C-4339 | Sequence 4339, Ap |
| 29 | 35 | 46.1 | 258 | 4 | US-09-489-039A-10872 | Sequence 10872, A |
| 30 | 35 | 46.1 | 309 | 2 | US-08-849-480A-6 | Sequence 6, Appl |
| 31 | 35 | 46.1 | 336 | 4 | US-09-878-766A-20 | Sequence 20, Appl |
| 32 | 35 | 46.1 | 341 | 4 | US-09-632-947B-9 | Sequence 9, Appl |
| 33 | 35 | 46.1 | 394 | 4 | US-09-543-681A-7069 | Sequence 7069, Ap |
| 34 | 35 | 46.1 | 403 | 4 | US-08-485-393-4 | Sequence 4, Appl |
| 35 | 35 | 46.1 | 493 | 3 | US-08-378-313-19 | Sequence 19, Appl |
| 36 | 35 | 46.1 | 559 | 4 | US-09-540-236-3330 | Sequence 3330, Ap |
| 37 | 35 | 46.1 | 671 | 4 | US-09-252-991A-19016 | Sequence 19016, A |
| 38 | 35 | 46.1 | 743 | 4 | US-09-808-701A-27 | Sequence 27, Appl |
| 39 | 35 | 46.1 | 832 | 4 | US-09-540-236-3056 | Sequence 3056, Ap |
| 40 | 35 | 46.1 | 1382 | 2 | US-08-737-715-2 | Sequence 2, Appl |
| 41 | 35 | 46.1 | 1382 | 4 | US-09-457-040B-7 | Sequence 7, Appl |
| 42 | 34 | 44.7 | 305 | 4 | US-09-252-991A-24926 | Sequence 24926, A |
| 43 | 34 | 44.7 | 380 | 3 | US-09-097-889-25 | Sequence 25, Appl |
| 44 | 34 | 44.7 | 380 | 4 | US-09-098-079-25 | Sequence 25, Appl |
| 45 | 34 | 44.7 | 415 | 4 | US-09-543-681A-4832 | Sequence 4832, Ap |

ALIGNMENTS

RESULT 1
US-08-467-023-189
; Sequence 189, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 189:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 127 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal

;; PRIOR FILING DATE: 1997-08-14
;; NUMBER OF SEQ ID NOS: 5674
;; SEQ ID NO 3121
;; LENGTH: 411
;; TYPE: PRT
;; ORGANISM: Staphylococcus epidermidis
US-09-134-001C-3121

Query Match
Best Local Similarity 50.0%; Score 38; DB 4; Length 411;
Best Local Similarity 75.0%; Pred. No. 63;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 8 VHYNGAKF 15
|:|:|:|
DB 52 VHYNGKF 59

RESULT 6
US-09-328-352-6983
; Sequence 6983, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; FILE REFERENCE: BAUMANNI FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: GTC99-03PA
; CURRENT APPLICATION NUMBER: US/09/328,352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 6983
; LENGTH: 665
; TYPE: PRT
; ORGANISM: Acinetobacter baumannii
US-09-328-352-6983

Query Match
Best Local Similarity 50.0%; Score 38; DB 4; Length 665;
Best Local Similarity 50.0%; Pred. No. 1.1e+02;
Matches 6; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 1 SRAEVSYYVNG 12
:|:|:|:|:|
DB 272 AQADLQVYVNG 283

RESULT 7
US-09-540-236-3643
; Sequence 3643, Application US/09540236
; Patent No. 6673910
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO MORAXELLA CATAR
; FILE REFERENCE: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.2005-001
; CURRENT APPLICATION NUMBER: US/09/540,236
; CURRENT FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 3840
; SEQ ID NO 3643
; LENGTH: 153
; TYPE: PRT
; ORGANISM: M.catarrhalis
US-09-540-236-3643

Query Match
Best Local Similarity 48.7%; Score 37; DB 4; Length 153;
Best Local Similarity 63.6%; Pred. No. 31;
Matches 7; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 4 EVSYVYVNGAK 14
|:|:|:|
DB 52 EAGKVHYNGAK 62

RESULT 8
US-09-252-991A-22663

; Sequence 22663, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 22663
; LENGTH: 231
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-22663

Query Match
Best Local Similarity 48.7%; Score 37; DB 4; Length 231;
Best Local Similarity 70.0%; Pred. No. 49;
Matches 7; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 SRAEVSYYHV 10
|:|:|:|:|:|
DB 13 SRADSVYYVL 22

RESULT 9
US-08-624-601-8
; Sequence 8, Application US/08624601
; Patent No. 5882653
; GENERAL INFORMATION:
; APPLICANT: Kaper Dr., James B.
; APPLICANT: Levine Dr., Myron M.
; TITLE OF INVENTION: Vibrio cholerae O1 (CVD111) and non-O1
; TITLE OF INVENTION: (CVD112 and CVD112RM) serogroup vaccine strains, methods
; TITLE OF INVENTION: of making same and products thereof
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Spencer & Frank
; STREET: 1100 New York Ave. N.W. Suite 300 East
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/624,601
; FILING DATE: 08-APR-1996
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Schneller Dr., John W.
; REGISTRATION NUMBER: 26,031
; REFERENCE/DOCKET NUMBER: BANCZ0019P2
; TELEPHONE: (202)414-4000
; TELEFAX: (202)414-4040
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 400 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:

STREET: P.O. Box 4390
CITY: Troy
STATE: Michigan
COUNTRY: US
ZIP: 48099-4390
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/488,961
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Kohn, Kenneth I.
REGISTRATION NUMBER: 30,955
REFERENCE/DOCKET NUMBER: P-320 (UMO)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (810) 689-3500
TELEFAX: (810) 689-4071
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 363 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-488-961-4

Query Match 47.4%; Score 36; DB 1; Length 363;
Best Local Similarity 53.8%; Pred. No. 1.3e+02;
Matches 7; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 2 RAESVYVHVGAK 14
DB 77 KALADYVHKGLK 89

RESULT 15
US-08-973-297-4
Sequence 4, Application US/08973297
Patent No. 6184017
GENERAL INFORMATION:
APPLICANT: Smith, Daniel S.
APPLICANT: Walker, John C.
TITLE OF INVENTION: Glycine and Phaseolus
alpha-D-Galactosidases
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: Kohn & Associates
STREET: 30500 No. 6184017thwestern Hwy., Suite 410
CITY: Farmington Hills
STATE: Michigan
COUNTRY: US
ZIP: 48334
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/973,297
FILING DATE:
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Kohn, Kenneth I.
REGISTRATION NUMBER: 30,955
REFERENCE/DOCKET NUMBER: 0994.00050
TELECOMMUNICATION INFORMATION:
TELEPHONE: (810) 539-5050
TELEFAX: (810) 539-5055
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:

LENGTH: 363 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-973-297-4
Query Match 47.4%; Score 36; DB 3; Length 363;
Best Local Similarity 53.8%; Pred. No. 1.3e+02;
Matches 7; Conservative 1; Mismatches 5; Indels 0; Gaps 0;
QY 2 RAESVYVHVGAK 14
DB 77 KALADYVHKGLK 89

Search completed: April 19, 2004, 12:38:23
Job time : 15.6939 secs

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OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:05 ; Search time 69.3163 Seconds
(without alignments)
60.529 Million cell updates/sec

Title: US-09-308-027A-19

Perfect score: 76

Sequence: 1 SRAEVSIVHNGAKF 15

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA.*

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2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
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7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep.*
10: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep.*
11: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep.*
12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
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| 1 | 76 | 100.0 | 15 | 14 | US-10-354-240-131 |
| 2 | 76 | 100.0 | 514 | 10 | US-09-847-208-69 |
| 3 | 72 | 94.7 | 134 | 14 | US-10-354-240-3 |
| 4 | 54 | 71.1 | 15 | 14 | US-10-354-240-132 |
| 5 | 49 | 64.5 | 15 | 14 | US-10-354-240-130 |
| 6 | 44 | 57.9 | 235 | 12 | US-10-282-122A-53386 |
| 7 | 42 | 55.3 | 521 | 9 | US-09-813-320-4 |
| 8 | 42 | 55.3 | 530 | 9 | US-09-813-320-2 |
| 9 | 42 | 55.3 | 1195 | 14 | US-10-192-440-10 |
| 10 | 42 | 55.3 | 1196 | 12 | US-10-332-447-6 |
| 11 | 42 | 55.3 | 1196 | 12 | US-10-255-532-2 |
| 12 | 42 | 55.3 | 1196 | 15 | US-10-391-388-82 |
| 13 | 41 | 53.9 | 159 | 15 | US-10-289-762-462 |
| 14 | 41 | 53.9 | 413 | 12 | US-10-424-599-208005 |
| 15 | 40.5 | 53.3 | 356 | 14 | US-10-156-761-9236 |

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|----|------|------|------|----|----------------------|--------------------|
| 16 | 40 | 52.6 | 265 | 12 | US-10-282-122A-51452 | Sequence 51452, A |
| 17 | 40 | 52.6 | 293 | 15 | US-10-369-493-11818 | Sequence 11818, A |
| 18 | 39 | 51.3 | 415 | 12 | US-10-282-122A-69001 | Sequence 69001, A |
| 19 | 39 | 51.3 | 418 | 12 | US-10-425-114-67385 | Sequence 67385, A |
| 20 | 39 | 51.3 | 484 | 15 | US-10-369-493-7681 | Sequence 7681, Ap |
| 21 | 39 | 51.3 | 481 | 15 | US-10-369-493-4923 | Sequence 4923, Ap |
| 22 | 39 | 51.3 | 785 | 14 | US-10-128-714-3071 | Sequence 3071, Ap |
| 23 | 39 | 51.3 | 864 | 14 | US-10-128-714-8071 | Sequence 8071, Ap |
| 24 | 38 | 50.0 | 330 | 9 | US-09-815-243-5284 | Sequence 5284, Ap |
| 25 | 38 | 50.0 | 391 | 9 | US-09-908-931B-22 | Sequence 22, Appl |
| 26 | 38 | 50.0 | 391 | 12 | US-10-282-122A-44110 | Sequence 44110, A |
| 27 | 38 | 50.0 | 392 | 12 | US-10-282-122A-70603 | Sequence 70603, A |
| 28 | 38 | 50.0 | 392 | 12 | US-10-282-122A-71682 | Sequence 71682, A |
| 29 | 38 | 50.0 | 398 | 9 | US-09-815-242-12599 | Sequence 12599, Ap |
| 30 | 38 | 50.0 | 579 | 14 | US-10-034-585-7891 | Sequence 7891, A |
| 31 | 38 | 50.0 | 650 | 12 | US-10-282-122A-44605 | Sequence 44605, A |
| 32 | 37.5 | 49.3 | 682 | 12 | US-10-425-114-43709 | Sequence 43709, A |
| 33 | 37 | 48.7 | 108 | 12 | US-10-424-599-167575 | Sequence 167575, A |
| 34 | 37 | 48.7 | 133 | 12 | US-10-282-122A-63005 | Sequence 63005, A |
| 35 | 37 | 48.7 | 220 | 12 | US-10-282-122A-73604 | Sequence 73604, A |
| 36 | 37 | 48.7 | 310 | 12 | US-10-012-819-112 | Sequence 112, App |
| 37 | 37 | 48.7 | 341 | 12 | US-10-282-122A-67345 | Sequence 67345, A |
| 38 | 37 | 48.7 | 367 | 15 | US-10-369-493-8192 | Sequence 8192, Ap |
| 39 | 37 | 48.7 | 497 | 14 | US-10-156-761-92114 | Sequence 9214, Ap |
| 40 | 37 | 48.7 | 801 | 12 | US-10-282-122A-58937 | Sequence 58937, A |
| 41 | 37 | 48.7 | 803 | 12 | US-10-282-122A-59057 | Sequence 59057, A |
| 42 | 37 | 48.7 | 803 | 12 | US-10-335-977-4824 | Sequence 4824, Ap |
| 43 | 37 | 48.7 | 804 | 12 | US-10-335-977-4825 | Sequence 4825, Ap |
| 44 | 37 | 48.7 | 1173 | 12 | US-10-282-122A-69785 | Sequence 69785, A |
| 45 | 36.5 | 48.0 | 289 | 15 | US-10-369-493-17664 | Sequence 17664, A |

ALIGNMENTS

RESULT 1

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US-10-354-240-131
; Sequence 131, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kotsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SFO-103D1
; CURRENT APPLICATION NUMBER: US/10354,240
; PRIORITY FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 131
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptosporidia japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)-(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 48
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Query Match 100.0%; Score 76; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 3.6e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SRAEVSIVHNGAKF 15

DB 1 SRAEVSIVHNGAKF 15


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; Sequence 53386, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 53386
; LENGTH: 295
; TYPE: PRT
; ORGANISM: Clostridium difficile
US-10-282-122A-53386

Query Match 57.9%; Score 44; DB 12; Length 295;
Best Local Similarity 53.3%; Pred. No. 8.3;
Matches 8; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 SRAEVSYYVHNGAKF 15
Db 157 SAGEVGYNNVNGSSF 171

RESULT 7
US-09-813-320-4
; Sequence 4, Application US/09813320
; Patent No. US20020142378A1
; GENERAL INFORMATION:
; APPLICANT: ZHANG, Hongyu et al.
; TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,
; FILE REFERENCE: CL001172
; CURRENT APPLICATION NUMBER: US/09/813,320
; CURRENT FILING DATE: 2001-03-21
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 521
; TYPE: PRT
; ORGANISM: Rattus norvegicus
US-10-192-440-10

Query Match 55.3%; Score 42; DB 14; Length 1195;
Best Local Similarity 50.0%; Pred. No. 94;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 2 RAEVSYYVHNGAKF 15
Db 93 KVEVYYHKGSTF 106

RESULT 8
US-09-813-320-2
; Sequence 2, Application US/09813320
; Patent No. US20020142378A1
; GENERAL INFORMATION:
; APPLICANT: ZHANG, Hongyu et al.
; TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,
; FILE REFERENCE: CL001172
; CURRENT APPLICATION NUMBER: US/09/813,320
; CURRENT FILING DATE: 2001-03-21
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 530
; TYPE: PRT
; ORGANISM: Human
US-09-813-320-2

Query Match 55.3%; Score 42; DB 9; Length 530;
Best Local Similarity 50.0%; Pred. No. 38;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 2 RAEVSYYVHNGAKF 15
Db 93 KVEVYYHKGSTF 106

RESULT 9
US-10-192-440-10
; Sequence 10, Application US/10192440
; Publication No. US20030082718A1
; GENERAL INFORMATION:
; APPLICANT: Curtis, Rory A. J.
; TITLE OF INVENTION: 52908, A HUMAN POTASSIUM CHANNEL, AND
; TITLE OF INVENTION: USES THEREOF
; FILE REFERENCE: MFI2001-009P1RNM
; CURRENT APPLICATION NUMBER: US/10/192,440
; CURRENT FILING DATE: 2002-07-10
; PRIOR APPLICATION NUMBER: 60/341,953
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 60/304,243
; PRIOR FILING DATE: 2001-07-10
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 1195
; TYPE: PRT
; ORGANISM: Rattus norvegicus
US-10-192-440-10

Query Match 55.3%; Score 42; DB 14; Length 1195;
Best Local Similarity 50.0%; Pred. No. 94;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 2 RAEVSYYVHNGAKF 15
Db 93 KVEVYYHKGSTF 106

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RESULT 10
US-10-332-447-6
; Sequence 6, Application US/10332447
; Publication No. US20040053258A1
; GENERAL INFORMATION:
; APPLICANT: INCYTE GENOMICS, INC.; RAUMANN, Brigitte E.;
; APPLICANT: THORNTON, Michael; DING, Li; YUE, Henry;
; APPLICANT: TANG, Y. Tom; HARLAND, Lee; BURFORD, Neil;
; APPLICANT: GREEN, Barrie D.; SANJANWALA, Madhu S.;
; APPLICANT: BAUGHN, Mariah R.; YAO, Monique G.; YANG, Junning;
; APPLICANT: ARVIZU, Chandra S.; GANDHI, Ameena R.;
; APPLICANT: HAFALIA, April J.A.; TRIBOULEY, Catherine M.;
; APPLICANT: WALIA, Narinder K.; AU-YOUNG, Janice;
; APPLICANT: WALSH, Roderick T.; RAMKUMAR, Javalaxmi;
; APPLICANT: LU, Yan; LU, Dnyong Aina M.; AZIMZAI, Yalda;
; APPLICANT: LAU, Freeti; ELLIOTT, Vicki S.; NGUYEN, Damiel B.;
; APPLICANT: XU, Yuming; SEIDHAMER, Jeffrey J.; BOROWSKY, Mark L.;
; APPLICANT: KHAN, Farrah A.; KEARNEY, Liam; THANGAVELU, Kavitha;
; APPLICANT: DAS, Debopriya; POLICKY, Jennifer L.
; TITLE OF INVENTION: TRANSPORTERS AND ION CHANNELS
; FILE REFERENCE: PI-0149 USN
; CURRENT APPLICATION NUMBER: US/10/332,447
; CURRENT FILING DATE: 2003-01-07
; PRIOR APPLICATION NUMBER: US 60/216,547
; PRIOR FILING DATE: 2000-07-07
; PRIOR APPLICATION NUMBER: US 60/218,232
; PRIOR FILING DATE: 2000-07-14
; PRIOR APPLICATION NUMBER: US 60/220,112
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: US 60/221,839
; PRIOR FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 64
; SOFTWARE: PERL Program
; SEQ ID NO 6
; LENGTH: 1196
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. US20040053258A1 7474240CD1
US-10-332-447-6

Query Match 55.3%; Score 42; DB 12; Length 1196;
Best Local Similarity 50.0%; Pred. No. 94;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 2 RAEVSYYHVNGAKF 15
: ||: ||: ||:
Db 93 KVEVYYHKGSTF 106

RESULT 11
US-10-255-532-2
; Sequence 2, Application US/10255532
; Publication No. US20030099991A1
; GENERAL INFORMATION:
; APPLICANT: Silos-Santiago, Inmaculada
; TITLE OF INVENTION: METHODS OF USING 33751, A HUMAN
; TITLE OF INVENTION: POTASSIUM CHANNEL FAMILY MEMBER
; FILE REFERENCE: MPI01-2421RM
; CURRENT APPLICATION NUMBER: US/10/255,532
; PRIOR FILING DATE: 2002-09-26
; PRIOR APPLICATION NUMBER: 60/325,854
; PRIOR FILING DATE: 2001-09-27
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 1196
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-255-532-2

Query Match 55.3%; Score 42; DB 14; Length 1196;
Best Local Similarity 50.0%; Pred. No. 94;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 2 RAEVSYYHVNGAKF 15
: ||: ||: ||:
Db 93 KVEVYYHKGSTF 106

RESULT 12
US-10-391-399-82
; Sequence 82, Application US/10391399
; Publication No. US20030219806A1
; GENERAL INFORMATION:
; APPLICANT: Millennium Pharmaceuticals, Inc.
; APPLICANT: Glucksmann, Maria Alexandra
; APPLICANT: Curtis, Rory A. J.
; APPLICANT: Lora, Jose M.
; APPLICANT: Galvin, Katherine M.
; APPLICANT: Silos-Santiago, Inmaculada
; TITLE OF INVENTION: NOVEL 18607, 15603, 69318, 12303, 48000,
; TITLE OF INVENTION: 52920, 5433, 38554, 57301, 58324, 55063, 52991, 59914, 59921
; TITLE OF INVENTION: AND 33751 MOLECULES AND USES THEREFOR
; FILE REFERENCE: MPI03-0200NMIM
; CURRENT APPLICATION NUMBER: US/10/391,399
; CURRENT FILING DATE: 2003-03-18
; PRIOR APPLICATION NUMBER: US 09/789,481
; PRIOR FILING DATE: 2001-02-20
; PRIOR APPLICATION NUMBER: US 09/634,669
; PRIOR FILING DATE: 2000-08-08
; PRIOR APPLICATION NUMBER: US 09/583,373
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: US 09/510,706
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 10/309,804
; PRIOR FILING DATE: 2002-12-04
; PRIOR APPLICATION NUMBER: US 60/336,936
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: US 10/094,214
; PRIOR FILING DATE: 2002-03-08
; PRIOR APPLICATION NUMBER: US60/275,078
; PRIOR FILING DATE: 2001-03-12
; PRIOR APPLICATION NUMBER: US 09/828,035
; PRIOR FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: US 60/195,734
; PRIOR FILING DATE: 2000-04-07
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 127
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 82
; LENGTH: 1196
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-391-399-82

Query Match 55.3%; Score 42; DB 15; Length 1196;
Best Local Similarity 50.0%; Pred. No. 94;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 2 RAEVSYYHVNGAKF 15
: ||: ||: ||:
Db 93 KVEVYYHKGSTF 106

RESULT 13
US-10-289-762-462
; Sequence 462, Application US/10289762
; Publication No. US20040006218A1
; GENERAL INFORMATION:
; APPLICANT: Griffiths, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragment
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prev
; TITLE OF INVENTION: and treatment of infection

FILE REFERENCE: 9710-003-999
CURRENT APPLICATION NUMBER: US/10/289,762
CURRENT FILING DATE: 2003-03-27
NUMBER OF SEQ ID NOS: 6849
SEQ ID NO 462
LENGTH: 159
TYPE: PRT
ORGANISM: Chlamydia pneumoniae
NAME/KEY: SITE
LOCATION: 1...159
OTHER INFORMATION: Xaa-unknown or other
US-10-289-762-462

Query Match 53.9%; Score 41; DB 15; Length 159;
Best Local Similarity 61.5%; Pred. No. 15;
Matches 8; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 3 AEVSIVHNGAKF 15
Db 51 AQOYLKVNDAKF 63

RESULT 14

US-10-424-599-208005
Sequence 208005, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: La Rosa Thomas J
APPLICANT: Kovalic David K
APPLICANT: Zhou Yihua
APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53223)B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 208005
LENGTH: 413
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT3847_29855C.1.pap
US-10-424-599-208005

Query Match 53.9%; Score 41; DB 12; Length 413;
Best Local Similarity 70.0%; Pred. No. 43;
Matches 7; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 5 VSVYHVNGAK 14
Db 285 LSVHLSGAK 294

RESULT 15

US-10-156-761-9236
Sequence 9236, Application US/10156761
Publication No. US20030119018A1
GENERAL INFORMATION:
APPLICANT: OMURA, SATOSHI
APPLICANT: IKEDA, HARUO
APPLICANT: ISHIKAWA, JUN
APPLICANT: HORIKAWA, HIROSHI
APPLICANT: SHIBA, TADAYOSHI
APPLICANT: SAKAKI, YOSHIYUKI
APPLICANT: HATTORI, MASAHIRA
TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
FILE REFERENCE: 249-262
CURRENT APPLICATION NUMBER: US/10/156,761
CURRENT FILING DATE: 2002-05-29
PRIOR APPLICATION NUMBER: JP 2001-204089
PRIOR FILING DATE: 2001-05-30

PRIOR APPLICATION NUMBER: JP 2001-272697
PRIOR FILING DATE: 2001-08-02
NUMBER OF SEQ ID NOS: 15109
SEQ ID NO 9236
LENGTH: 356
TYPE: PRT
ORGANISM: Streptomyces avermitilis
US-10-156-761-9236

Query Match 53.3%; Score 40.5; DB 14; Length 356;
Best Local Similarity 64.3%; Pred. No. 45;
Matches 9; Conservative 3; Mismatches 1; Indels 1; Gaps 1;

QY 3 AEVSIVHV-NGAKF 15
Db 304 AEVAYDHMENGARF 317

Search completed: April 19, 2004, 11:29:30
Job time : 69.3163 secs

| Result No. | Score | Query Match | Length | DB | ID | Description |
|------------|-------|-------------|--------|----|----------------------|---------------------|
| 1 | 79 | 100.0 | 127 | 3 | US-08-467-023-188 | Sequence 188, App |
| 2 | 79 | 100.0 | 514 | 3 | US-08-467-023-134 | Sequence 134, App |
| 3 | 43 | 54.4 | 96 | 4 | US-09-732-210-999 | Sequence 999, App |
| 4 | 42 | 53.2 | 952 | 4 | US-09-253-931A-32183 | Sequence 32183, App |
| 5 | 41 | 51.9 | 122 | 4 | US-09-134-000C-5198 | Sequence 5198, App |
| 6 | 40 | 50.6 | 212 | 4 | US-09-189-833B-2 | Sequence 2, App1 |
| 7 | 40 | 50.6 | 806 | 1 | US-08-270-076A-11 | Sequence 11, App1 |
| 8 | 39 | 49.4 | 49 | 3 | US-08-941-532-8 | Sequence 8, App1 |
| 9 | 39 | 49.4 | 234 | 4 | US-09-219-983A-7 | Sequence 7, App1 |
| 10 | 39 | 49.4 | 348 | 4 | US-09-107-532A-5421 | Sequence 5421, App |
| 11 | 39 | 49.4 | 351 | 4 | US-09-134-000C-5390 | Sequence 5390, App |
| 12 | 39 | 49.4 | 433 | 3 | US-08-941-532-6 | Sequence 6, App1 |
| 13 | 39 | 49.4 | 433 | 4 | US-09-051-239A-2 | Sequence 2, App1 |
| 14 | 38 | 48.1 | 225 | 4 | US-09-489-039A-10780 | Sequence 10780, App |
| 15 | 38 | 48.1 | 344 | 4 | US-09-543-681A-7493 | Sequence 7493, App |
| 16 | 37 | 46.8 | 64 | 4 | US-09-732-210-968 | Sequence 968, App |
| 17 | 37 | 46.8 | 127 | 3 | US-08-806-121B-3 | Sequence 3, App1 |
| 18 | 37 | 46.8 | 127 | 4 | US-09-443-061-3 | Sequence 3, App1 |
| 19 | 37 | 46.8 | 214 | 4 | US-09-257-583-15 | Sequence 15, App1 |
| 20 | 37 | 46.8 | 257 | 4 | US-09-198-452A-151 | Sequence 151, App |
| 21 | 37 | 46.8 | 583 | 4 | US-09-328-352-5822 | Sequence 5822, App |
| 22 | 36.5 | 46.2 | 574 | 1 | US-08-354-618-2 | Sequence 2, App1 |
| 23 | 36 | 45.6 | 60 | 4 | US-09-134-001C-5448 | Sequence 5448, App |
| 24 | 36 | 45.6 | 86 | 2 | US-08-933-750C-40 | Sequence 40, App1 |
| 25 | 36 | 45.6 | 86 | 3 | US-09-234-613-40 | Sequence 40, App1 |
| 26 | 36 | 45.6 | 288 | 4 | US-09-273-839A-8 | Sequence 8, App1 |
| 27 | 36 | 45.6 | 355 | 4 | US-09-134-001C-3580 | Sequence 3580, App |

RESULT 1
US-08-467-023-188
Sequence 188, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffith, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Xuo, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides from
TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
CORRESPONDENCE: Immunologic Pharmaceutical Corporation, Inc.

| | |
|-----|---------------------------------------|
| 1 | ALLERGENIC PROTEINS AND PEPTIDES FROM |
| 2 | STEVEN F. POWERS, |
| 3 | APPLICANT; |
| 4 | TIME OF INVENTION; |
| 5 | DATE OF INVENTION; |
| 6 | DATE OF INVENTION; |
| 7 | DATE OF INVENTION; |
| 8 | DATE OF INVENTION; |
| 9 | DATE OF INVENTION; |
| 10 | DATE OF INVENTION; |
| 11 | DATE OF INVENTION; |
| 12 | DATE OF INVENTION; |
| 13 | DATE OF INVENTION; |
| 14 | DATE OF INVENTION; |
| 15 | DATE OF INVENTION; |
| 16 | DATE OF INVENTION; |
| 17 | DATE OF INVENTION; |
| 18 | DATE OF INVENTION; |
| 19 | DATE OF INVENTION; |
| 20 | DATE OF INVENTION; |
| 21 | DATE OF INVENTION; |
| 22 | DATE OF INVENTION; |
| 23 | DATE OF INVENTION; |
| 24 | DATE OF INVENTION; |
| 25 | DATE OF INVENTION; |
| 26 | DATE OF INVENTION; |
| 27 | DATE OF INVENTION; |
| 28 | DATE OF INVENTION; |
| 29 | DATE OF INVENTION; |
| 30 | DATE OF INVENTION; |
| 31 | DATE OF INVENTION; |
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| 33 | DATE OF INVENTION; |
| 34 | DATE OF INVENTION; |
| 35 | DATE OF INVENTION; |
| 36 | DATE OF INVENTION; |
| 37 | DATE OF INVENTION; |
| 38 | DATE OF INVENTION; |
| 39 | DATE OF INVENTION; |
| 40 | DATE OF INVENTION; |
| 41 | DATE OF INVENTION; |
| 42 | DATE OF INVENTION; |
| 43 | DATE OF INVENTION; |
| 44 | DATE OF INVENTION; |
| 45 | DATE OF INVENTION; |
| 46 | DATE OF INVENTION; |
| 47 | DATE OF INVENTION; |
| 48 | DATE OF INVENTION; |
| 49 | DATE OF INVENTION; |
| 50 | DATE OF INVENTION; |
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| 55 | DATE OF INVENTION; |
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| 57 | DATE OF INVENTION; |
| 58 | DATE OF INVENTION; |
| 59 | DATE OF INVENTION; |
| 60 | DATE OF INVENTION; |
| 61 | DATE OF INVENTION; |
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| 63 | DATE OF INVENTION; |
| 64 | DATE OF INVENTION; |
| 65 | DATE OF INVENTION; |
| 66 | DATE OF INVENTION; |
| 67 | DATE OF INVENTION; |
| 68 | DATE OF INVENTION; |
| 69 | DATE OF INVENTION; |
| 70 | DATE OF INVENTION; |
| 71 | DATE OF INVENTION; |
| 72 | DATE OF INVENTION; |
| 73 | DATE OF INVENTION; |
| 74 | DATE OF INVENTION; |
| 75 | DATE OF INVENTION; |
| 76 | DATE OF INVENTION; |
| 77 | DATE OF INVENTION; |
| 78 | DATE OF INVENTION; |
| 79 | DATE OF INVENTION; |
| 80 | DATE OF INVENTION; |
| 81 | DATE OF INVENTION; |
| 82 | DATE OF INVENTION; |
| 83 | DATE OF INVENTION; |
| 84 | DATE OF INVENTION; |
| 85 | DATE OF INVENTION; |
| 86 | DATE OF INVENTION; |
| 87 | DATE OF INVENTION; |
| 88 | DATE OF INVENTION; |
| 89 | DATE OF INVENTION; |
| 90 | DATE OF INVENTION; |
| 91 | DATE OF INVENTION; |
| 92 | DATE OF INVENTION; |
| 93 | DATE OF INVENTION; |
| 94 | DATE OF INVENTION; |
| 95 | DATE OF INVENTION; |
| 96 | DATE OF INVENTION; |
| 97 | DATE OF INVENTION; |
| 98 | DATE OF INVENTION; |
| 99 | DATE OF INVENTION; |
| 100 | DATE OF INVENTION; |

```
US-08-467-023-188
Query Match      100.0%; Score 79; DB 3; Length 127;
Best Local Similarity 100.0%; Pred. No. 1e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 ASKNFHLQKNTIGT 15
Db      87 ASKNFHLQKNTIGT 101

RESULT 2
US-08-467-023-134
Sequence 134, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffith, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D.;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 134:
SEQUENCE CHARACTERISTICS:
LENGTH: 514 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-467-023-134

Query Match      100.0%; Score 79; DB 3; Length 514;
Best Local Similarity 100.0%; Pred. No. 4.8e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 ASKNFHLQKNTIGT 15
Db      240 ASKNFHLQKNTIGT 254

RESULT 3
US-09-732-210-999
Sequence 999, Application US/09732210
Patent No. 6573361
GENERAL INFORMATION:
APPLICANT: Bunkers, Greg J.
APPLICANT: Liang, Jihong
APPLICANT: Mittanck, Cindy A.
APPLICANT: Seale, Jeffrey W.
APPLICANT: Wu, Yonnie S.
TITLE OF INVENTION: Anti-fungal Proteins and Methods for Their Use
FILE REFERENCE: 38-21(15036)B
CURRENT APPLICATION NUMBER: US/09/732,210
CURRENT FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: US 60/169,513
PRIOR FILING DATE: 1999-12-07
PRIOR APPLICATION NUMBER: US 60/169,340
PRIOR FILING DATE: 1999-12-07
NUMBER OF SEQ ID NOS: 1753
SEQ ID NO 999
LENGTH: 96
TYPE: PRT
ORGANISM: Homo sapiens
US-09-732-210-999

Query Match      54.4%; Score 43; DB 4; Length 96;
Best Local Similarity 66.7%; Pred. No. 2;
Matches 8; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy      2 SKNFHLQKNTIG 13
Db      23 SKNFHLQKNTIG 34

RESULT 4
US-09-252-991A-32183
Sequence 32183, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 32183
LENGTH: 952
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-32183

Query Match      53.2%; Score 42; DB 4; Length 952;
Best Local Similarity 50.0%; Pred. No. 37;
Matches 6; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

Qy      2 SKNFHLQKNTIG 13
Db      574 ARNFHLRNFGV 585

RESULT 5
US-09-134-000C-5198
Sequence 5198, Application US/09134000C
Patent No. 6617156
GENERAL INFORMATION:
APPLICANT: Lynn Doucette-Stamm et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
FILE REFERENCE: 032796-032
CURRENT APPLICATION NUMBER: US/09/134,000C
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;; CURRENT FILING DATE: 1998-08-13
;; PRIOR APPLICATION NUMBER: US 60/055,778
;; PRIOR FILING DATE: 1997-08-15
;; NUMBER OF SEQ ID NOS: 6812
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 5198
;; LENGTH: 122
;; TYPE: PRT
;; ORGANISM: Enterococcus faecalis
US-09-134-000C-5198

Query Match 51.9%; Score 41; DB 4; Length 122;
Best Local Similarity 77.8%; Pred. No. 5.8;
Matches 7; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 SKNFHLQKN 10
||:||||:
Db 3 SKSFHLEKN 11

RESULT 6
US-09-189-833B-2
; Sequence 2, Application US/09189833B
; Patent No. 6653446
; GENERAL INFORMATION:
; APPLICANT: Bednarik et al.
; TITLE OF INVENTION: Human Hypoxanthine-(Guanine) Phosphoribosyl Transferase-2
; FILE REFERENCE: PF138PDI1
; CURRENT APPLICATION NUMBER: US/09/189,833B
; CURRENT FILING DATE: 1998-11-12
; PRIOR APPLICATION NUMBER: US 08/461,031
; PRIOR FILING DATE: 1995-06-05
; PRIOR APPLICATION NUMBER: PCT/US94/11914
; PRIOR FILING DATE: 1994-10-19
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 212
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-189-833B-2

Query Match 50.6%; Score 40; DB 4; Length 212;
Best Local Similarity 46.7%; Pred. No. 16;
Matches 7; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 1 ASKNFLQKNITGTG 15
|||:||||:
Db 126 AGKNFLIVEDVGTG 140

RESULT 7
US-08-270-076A-11
; Sequence 11, Application US/08270076A
; Patent No. 5667986
; GENERAL INFORMATION:
; APPLICANT: Sleep, Darrell
; APPLICANT: Goodey, Andrew R
; APPLICANT: Vakeria, Diana
; TITLE OF INVENTION: Yeast Promoter
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: The BOC Group, Inc.
; STREET: 100 Mountain Avenue, Murray Hill
; CITY: New Providence
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07974
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25

;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/270,076A
;; FILING DATE: 01-JUL-1994
;; CLASSIFICATION: 435
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: GB 8923521.2
;; FILING DATE: 18-OCT-1989
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 07/597,687
;; FILING DATE: 16-OCT-1990
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 07/925,286
;; FILING DATE: 04-AUG-1992
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Swope, R. Hain 24864
;; REGISTRATION NUMBER:
;; REFERENCE/DOCKET NUMBER: 92H834-3
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 908/771-6292
;; TELEFAX: 908/771-6159
;; INFORMATION FOR SEQ ID NO: 11:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 806 amino acids
;; TYPE: amino acid
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
US-08-270-076A-11

Query Match 50.6%; Score 40; DB 1; Length 806;
Best Local Similarity 57.1%; Pred. No. 71;
Matches 8; Conservative 3; Mismatches 1; Indels 2; Gaps 1;

QY 4 NFHLQK--NTIGTG 15
:||||: ||:
Db 416 SFHLQRTNTLTGAG 429

RESULT 8
US-08-941-532-8
; Sequence 8, Application US/08941532
; Patent No. 6096946
; GENERAL INFORMATION:
; APPLICANT: ROBERTS, Jeremy Alan
; APPLICANT: COUPE, Simon Allan
; APPLICANT: JENKINS, Elizabeth Sarah
; TITLE OF INVENTION: CONTROL OF POD DEHISCENCE
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sterne, Kessler, Goldstein & Fox
; STREET: 1100 New York Avenue
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/941,532
; FILING DATE: 30-SEP-1997
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/GB96/00757
; FILING DATE: 29-MAR-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB 9506684.1
; FILING DATE: 31-MAR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Ramond, Robert W.
; REGISTRATION NUMBER: 32,893
; REFERENCE/DOCKET NUMBER: 0623.0580001/RWE

```

; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 371-2600
; TELEFAX: (202) 371-2540
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 49 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-941-532-8

Query Match 49.4%; Score 39; DB 3; Length 49;
Best Local Similarity 46.7%; Pred. No. 4.8;
Matches 7; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

Qy 1 ASKNFHLOKNTIGT 15
Db 10 ATRNIRISNSDIGT 24

RESULT 9
US-09-219-983A-7
; Sequence 7, Application US/09219983A
; Patent No. 6380159
; GENERAL INFORMATION:
; APPLICANT: Wolfner, Mariana
; APPLICANT: Lung, Oliver
; APPLICANT: Tram, Khanh-Uyen
; TITLE OF INVENTION: GENES FOR MALE ACCESSORY GLAND PROTEINS IN DROSOPHILA
; TITLE OF INVENTION: MELANOGASTER
; FILE REFERENCE: 19603/1791
; CURRENT APPLICATION NUMBER: US/09/219,983A
; CURRENT FILING DATE: 1998-12-23
; PRIOR APPLICATION NUMBER: 60/071,315
; PRIOR FILING DATE: 1997-12-23
; NUMBER OF SEQ ID NOS: 35
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 7
; LENGTH: 234
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; US-09-219-983A-7

Query Match 49.4%; Score 39; DB 4; Length 234;
Best Local Similarity 46.2%; Pred. No. 27;
Matches 6; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy 2 SKNFHLOKNTIGT 14
Db 119 SRHFHIEKLNQGT 131

RESULT 10
US-09-107-532A-5421
; Sequence 5421, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; NUMBER OF SEQUENCES: 7310
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: ASCII

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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,532A
; FILING DATE: 30-Jun-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/085,598
; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 60/051571
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Arinfiello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 5421:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 348 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (B) LOCATION 1...348
; SEQUENCE DESCRIPTION: SEQ ID NO: 5421:
US-09-107-532A-5421

Query Match 49.4%; Score 39; DB 4; Length 348;
Best Local Similarity 63.6%; Pred. No. 42;
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 2 SKNFHLOKNTI 12
Db 301 STNFHLPKSTL 311

RESULT 11
US-09-134-000C-5390
; Sequence 5390, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; TITLE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 032796-032
; CURRENT APPLICATION NUMBER: US/09/134,000C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/055,778
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 6812
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 5390
; LENGTH: 351
; TYPE: PRT
; ORGANISM: Enterococcus faecalis
; US-09-134-000C-5390

Query Match 49.4%; Score 39; DB 4; Length 351;
Best Local Similarity 63.6%; Pred. No. 42;
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 2 SKNFHLOKNTI 12
Db 304 STNFHLPKSTL 314

RESULT 12
US-08-941-532-6
; Sequence 6, Application US/08941532
; Patent No. 6096946

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RESULT 13
US-09-051-239A-2
, Sequence 2, Application US/09051239A
, Patent No. 6420628
, GENERAL INFORMATION:
, APPLICANT: ULVSKOV, Peter
, APPLICANT: CHILD, Robin
, APPLICANT: VAN ONCKELIN, Henri
, APPLICANT: PRINSEN, Els
, APPLICANT: BORKHARDT, Bernard
, APPLICANT: SANDER, Lilli
, APPLICANT: PETERSEN, Morten
, APPLICANT: BUNDEGAARD POULSEN, Gert
, APPLICANT: BOTTERMAN, Johan
, TITLE OF INVENTION: Seed Shattering
, FILE REFERENCE: 2121-0138P
, CURRENT APPLICATION NUMBER: US/09/051,239A
, PRIOR FILING DATE: 1998-09-28
, PRIOR APPLICATION NUMBER: PCT/EP96/04313
, PRIOR FILING DATE: 1996-10-04
, PRIOR APPLICATION NUMBER: EP 95 402241.4

```

RESULT 15
US-09-543-681A-7493
Sequence 7493, Application US/09543681A
Patent No. 6605709
GENERAL INFORMATION:
APPLICANT: GARY BRETON
TITLE OF INVENTION: NUCLEIC ACID AND AMINO
ACID COMPOSITIONS FOR DIAGNOSTICS AND THERA
PEUTICS
FILE REFERENCE: 2709-1002-001
CURRENT APPLICATION NUMBER: US/09/543, 681A
CURRENT FILING DATE: 2000-04-05
PRIOR APPLICATION NUMBER: US 60/128, 706
PRIOR FILING DATE: 1999-04-09
NUMBER OF SEQ ID NOS: 8344
SEQ ID NO 7493
LENGTH: 344
TYPE: PRT
ORGANISM: Proteus mirabilis
US-09-543-681A-7493

| | | | | |
|-----------------------|--------|---------------|-------|-------------|
| Query Match | 48.1%; | Score 38; | DB 4; | Length 344; |
| Best Local Similarity | 70.0%; | Pred. No. 63; | | |

Matches 7; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 6 HLCRNTIGTG 15

Db 108 HLCRNTIGVG 117

Search completed: April 19, 2004, 12:38:22
Job time : 14.6939 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:39 ; Search time 14.6939 Seconds
(without alignments)
52.702 Million cell updates/sec

Title: US-09-308-027A-17

Perfect score: 79

Sequence: 1 GIDIFASKNFHLQKN 15

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA: *
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6: /cgn2_6/prodata/2/1aa/backfiles1.pep: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
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| 1 | 79 | 100.0 | 127 | 3 | US-08-467-023-188 |
| 2 | 79 | 100.0 | 514 | 3 | US-08-467-023-134 |
| 3 | 43 | 54.4 | 287 | 4 | US-09-540-236-2879 |
| 4 | 41 | 51.9 | 122 | 4 | US-09-134-000C-5198 |
| 5 | 40 | 50.6 | 473 | 4 | US-09-107-532A-5371 |
| 6 | 38 | 48.1 | 448 | 4 | US-09-198-452A-216 |
| 7 | 37 | 46.8 | 216 | 4 | US-09-540-236-3103 |
| 8 | 37 | 46.8 | 360 | 4 | US-09-134-000C-5241 |
| 9 | 37 | 46.8 | 462 | 4 | US-09-543-684A-5495 |
| 10 | 36.5 | 46.2 | 968 | 4 | US-09-228-986-76 |
| 11 | 36 | 45.6 | 65 | 4 | US-09-134-000C-4659 |
| 12 | 36 | 45.6 | 127 | 3 | US-08-806-121B-3 |
| 13 | 36 | 45.6 | 127 | 4 | US-09-443-061-3 |
| 14 | 36 | 45.6 | 132 | 4 | US-09-660-465A-3 |
| 15 | 36 | 45.6 | 133 | 1 | US-07-800-366-1 |
| 16 | 36 | 45.6 | 133 | 1 | US-08-354-456A-5 |
| 17 | 36 | 45.6 | 133 | 1 | US-08-354-456A-6 |
| 18 | 36 | 45.6 | 133 | 1 | US-08-225-224-3 |
| 19 | 36 | 45.6 | 133 | 1 | US-08-318-193-89 |
| 20 | 36 | 45.6 | 133 | 1 | US-08-284-393B-1 |
| 21 | 36 | 45.6 | 133 | 1 | US-08-284-393B-2 |
| 22 | 36 | 45.6 | 133 | 1 | US-08-284-393B-3 |
| 23 | 36 | 45.6 | 133 | 1 | US-08-734-471-1 |
| 24 | 36 | 45.6 | 133 | 3 | US-08-722-258-3 |
| 25 | 36 | 45.6 | 133 | 3 | US-08-817-787-13 |
| 26 | 36 | 45.6 | 133 | 4 | US-09-310-026-1 |
| 27 | 36 | 45.6 | 133 | 4 | US-09-538-873-2 |

28 36 45.6 133 4 US-09-462-941-9 Sequence 9, Appli
29 36 45.6 133 4 US-09-554-451-9 Sequence 9, Appli
30 36 45.6 133 5 PCT-US95-04468-3 Sequence 3, Appli
31 36 45.6 133 5 PCT-US95-08950-1 Sequence 1, Appli
32 36 45.6 133 5 PCT-US95-08950-2 Sequence 2, Appli
33 36 45.6 133 5 PCT-US95-08950-3 Sequence 3, Appli
34 36 45.6 133 6 5210023-1 Patent No. 5210029
35 36 45.6 133 6 5256769-1 Patent No. 5256769
36 36 45.6 133 6 5464939-2 Patent No. 5464939
37 36 45.6 134 6 546924-55 Patent No. 546924
38 36 45.6 153 3 US-09-012-366-3 Sequence 3, Appli
39 36 45.6 153 3 US-08-759-628-8 Sequence 8, Appli
40 36 45.6 153 4 US-09-522-217-111 Sequence 111, App
41 36 45.6 153 4 US-09-323-246-111 Sequence 111, App
42 36 45.6 153 4 US-10-295-723-111 Sequence 111, App
43 36 45.6 156 6 5314995-7 Patent No. 5314995
44 36 45.6 156 4 US-09-000-003A-2 Sequence 2, Appli
45 36 45.6 157 3 US-08-818-562-2 Sequence 2, Appli

ALIGNMENTS

RESULT 1

US-08-467-023-188
; Sequence 188, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/POCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 188:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 127 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal

US-08-467-023-188

Query Match 100.0%; Score 79; DB 3; Length 127;
Best Local Similarity 100.0%; Pred. No. 3e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GIDIFASKNFHLQKN 15
|||
Db 82 GIDIFASKNFHLQKN 96
|||

RESULT 2

US-08-467-023-134
; Sequence 134, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 134:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 514 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
US-08-467-023-134

Query Match 100.0%; Score 79; DB 3; Length 514;
Best Local Similarity 100.0%; Pred. No. 1.5e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GIDIFASKNFHLQKN 15
|||
Db 235 GIDIFASKNFHLQKN 249
|||

RESULT 3

US-09-540-236-2879

; Sequence 2879, Application US/09540236
; Patent No. 6673910
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO MORAXELLA CATA
; FILE REFERENCE: 2709.2005-001
; CURRENT APPLICATION NUMBER: US/09/540,236
; CURRENT FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 3840
; SEQ ID NO 2879
; LENGTH: 287
; TYPE: PRT
; ORGANISM: M.cattarrhalis
US-09-540-236-2879

Query Match 54.4%; Score 43; DB 4; Length 287;
Best Local Similarity 53.3%; Pred. No. 3.8;
Matches 8; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 1 GIDIFASKNFHLQKN 15
|||
Db 24 GENIFENVFNQKN 38
|||

RESULT 4

US-09-134-000C-5198
; Sequence 5198, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; TITLE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 032798-032
; CURRENT APPLICATION NUMBER: US/09/134,000C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/055,778
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 6812
; SOFTWARE: Patent In version 3.1
; SEQ ID NO 5198
; LENGTH: 122
; TYPE: PRT
; ORGANISM: Enterococcus faecalis
US-09-134-000C-5198

Query Match 51.9%; Score 41; DB 4; Length 122;
Best Local Similarity 77.8%; Pred. No. 3.3;
Matches 7; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 7 SKNFHLQKN 15
|||
Db 3 SKSFHLEKN 11
|||

RESULT 5

US-09-107-532A-5371
; Sequence 5371, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 7310
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD/ROM ISO9660

COMPUTER: PC
OPERATING SYSTEM: <Unknown>
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/107,532A
FILING DATE: 30-Jun-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/085,598
FILING DATE: 14 May 1998
APPLICATION NUMBER: 60/051571
FILING DATE: July 2, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Ariniello, Pamela Deneke
REGISTRATION NUMBER: 40,489
REFERENCE/DOCKET NUMBER: GTC-012
TELECOMMUNICATION INFORMATION:
TELEPHONE: (781)893-5007
TELEFAX: (781)893-8277
INFORMATION FOR SEQ ID NO: 5371:
SEQUENCE CHARACTERISTICS:
LENGTH: 473 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES
ORIGINAL SOURCE:
ORGANISM: Enterococcus faecium
FEATURE:
NAME/KEY: misc feature
LOCATION: (B) LOCATION 1...473
SEQUENCE DESCRIPTION: SEQ ID NO: 5371:
US-09-107-532A-5371

Query Match 50.6%; Score 40; DB 4; Length 473;
Best Local Similarity 46.7%; Pred. No. 25;
Matches 7; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

Qy 1 GIDIFASKNFHLQKN 15
|:::|:::|:::|:::|:::|
Db 38 GVLEFNEKFGFLKKN 52

RESULT 6
US-09-198-452A-216
; Sequence 216, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
; APPLICANT: Griffiths, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments thereof and uses thereof, in particular for the diagnosis, prevention and treatment of infection
; TITLE OF INVENTION: and treatment of infection
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 216
; LENGTH: 448
; TYPE: PRT
; ORGANISM: Chlamydia pneumoniae
US-09-198-452A-216

Query Match 48.1%; Score 38; DB 4; Length 448;
Best Local Similarity 42.9%; Pred. No. 54;
Matches 6; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

Qy 2 IDIFASKNFHLQKN 15
|:::|:::|:::|:::|:::|
Db 191 VEYFPGHNHLKKN 204

RESULT 7
US-09-540-236-3103
; Sequence 3103, Application US/09540236

; Patent No. 6673910
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO MORAXELLA CATARACTAE
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.2005-001
; CURRENT APPLICATION NUMBER: US/09/540,236
; CURRENT FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 3840
; SEQ ID NO 3103
; LENGTH: 216
; TYPE: PRT
; ORGANISM: M. catarrhalis
US-09-540-236-3103

Query Match 46.8%; Score 37; DB 4; Length 216;
Best Local Similarity 54.5%; Pred. No. 36;
Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 4 IFASKNFHLQK 14
|:::|:::|:::|:::|:::|
Db 65 LFISQRFHLK 75

RESULT 8
US-09-134-000C-5241
; Sequence 5241, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
; TITLE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 032796-032
; CURRENT APPLICATION NUMBER: US/09/134,000C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/055,778
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 6812
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5241
; LENGTH: 360
; TYPE: PRT
; ORGANISM: Enterococcus faecalis
US-09-134-000C-5241

Query Match 46.8%; Score 37; DB 4; Length 360;
Best Local Similarity 42.9%; Pred. No. 64;
Matches 6; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

Qy 1 GIDIFASKNFHLQK 14
|:::|:::|:::|:::|:::|
Db 235 GVDLQAKNYQKQK 248

RESULT 9
US-09-543-681A-5495
; Sequence 5495, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
; APPLICANT: GARY BRETON
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.1002-001
; CURRENT APPLICATION NUMBER: US/09/543,681A
; CURRENT FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 60/128,706
; PRIOR FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 5495
; LENGTH: 462
; TYPE: PRT
; ORGANISM: Proteus mirabilis
US-09-543-681A-5495

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Query Match 46.8%; Score 37; DB 4; Length 462;
Best Local Similarity 50.0%; Pred. No. 86;
Matches 7; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GIDIFASKNFHLQK 14
Db 260 GTSIFANKYHGK 273

RESULT 10
US-09-228-986-76
; Sequence 76, Application US/09228986
; Patent No. 6359198
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Niels
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signalling
; FILE REFERENCE: 11000/1020
; CURRENT APPLICATION NUMBER: US/09/228,986
; CURRENT FILING DATE: 1999-01-12
; NUMBER OF SEQ ID NOS: 130
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 76
; LENGTH: 968
; TYPE: PRT
; ORGANISM: Eucalyptus grandis
US-09-228-986-76

Query Match 46.2%; Score 36.5; DB 4; Length 968;
Best Local Similarity 43.8%; Pred. No. 2.5e+02;
Matches 7; Conservative 4; Mismatches 4; Indels 1; Gaps 1;

Qy 1 GID-IFASKNFHLQKN 15
Db 192 GIDLKLLKAKHFHNKN 207

RESULT 11
US-09-134-000C-4659
; Sequence 4659, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; TITLE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 032796-032
; CURRENT APPLICATION NUMBER: US/09/134,000C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/055,778
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 6812
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4659
; LENGTH: 65
; TYPE: PRT
; ORGANISM: Enterococcus faecalis
US-09-134-000C-4659

Query Match 45.6%; Score 36; DB 4; Length 65;
Best Local Similarity 53.8%; Pred. No. 13;
Matches 7; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

Qy 2 IDIFASKNFHLQK 14
Db 48 IGIFAKNFHVKQ 60

RESULT 12
US-08-806-121B-3
; Sequence 3, Application US/0806121B
; Patent No. 6008319
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GENERAL INFORMATION:
APPLICANT: Epstein, Alan L.
TITLE OF INVENTION: Vasopermeability Enhancing
TITLE OF INVENTION: Peptide Fragment of Human Interleukin-2
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fulbright & Jaworski, L.L.P.
STREET: 865 South Figueroa Street, 29th Floor
CITY: Los Angeles
STATE: California
ZIP: 90017-2571
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy Disk, 3.50 inch, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows NT-WordPerfect 8.0
SOFTWARE: ASCII (DOS) TEXT
CURRENT APPLICATION DATA:
CURRENT APPLICATION NUMBER: US/08/806,121B
FILING DATE: 23-DEC-1996
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Churchill, Margaret A. (Ph.D.)
REGISTRATION NUMBER: 39,944
REFERENCE/DOCKET NUMBER: 1920-325XX
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 892-9200
TELEFAX: (213) 680-4518
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
TYPE: amino acid
LENGTH: 127 amino acids
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-806-121B-3

Query Match 45.6%; Score 36; DB 3; Length 127;
Best Local Similarity 50.0%; Pred. No. 29;
Matches 6; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

Qy 2 IDIFASKNFHLQ 13
Db 67 LNLQSKNFHLR 78

RESULT 13
US-09-443-061-3
; Sequence 3, Application US/09443061
; Patent No. 6403096
; GENERAL INFORMATION:
; APPLICANT: Epstein, Alan L.
; TITLE OF INVENTION: Vasopermeability Enhancing
; TITLE OF INVENTION: Peptide Fragment of Human Interleukin-2
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski, L.L.P.
; STREET: 865 South Figueroa Street, 29th Floor
; CITY: Los Angeles
; STATE: California
; ZIP: 90017-2571
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy Disk, 3.50 inch, 1.44 Mb
; storage
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: Windows NT-WordPerfect 8.0
; SOFTWARE: ASCII (DOS) TEXT
; CURRENT APPLICATION DATA:
; CURRENT APPLICATION NUMBER: US/09/443,061
; FILING DATE: 18-No. 6403096-1999
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/806,121
; FILING DATE: 23-DEC-1996
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ATTORNEY/AGENT INFORMATION:
NAME: Churchill, Margaret A. (Ph.D.)
REGISTRATION NUMBER: 39,944
REFERENCE/DOCKET NUMBER: 1920-325XX
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 892-9200
TELEFAX: (213) 680-4518
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 127 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-443-061-3

Query Match 45.6%; Score 36; DB 4; Length 127;
Best Local Similarity 50.0%; Pred. No. 29;
Matches 6; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 2 IDIFASKNFHLQ 13
DB 67 LNLAQSKNFHLR 78

RESULT 14
US-09-660-465A-3
Sequence 3, Application US/09660465A
Patent No. 6596853
GENERAL INFORMATION:
APPLICANT: THEZE, JACQUES
APPLICANT: ECKENBERG, RALPH
APPLICANT: MOREAU, JEAN-LOUIS
APPLICANT: MAZIE, JEAN-CLAUDE
TITLE OF INVENTION: BIOLOGICAL APPLICATIONS OF NEW PEPTIDES OF IL-2 AND DERIVATIVES A
FILE REFERENCE: 197287US00CNT
CURRENT APPLICATION NUMBER: US/09/660,465A
CURRENT FILING DATE: 2000-09-12
PRIOR APPLICATION NUMBER: US/09/116,594
PRIOR FILING DATE: 1998-07-16
NUMBER OF SEQ ID NOS: 3
SOFTWARE: PatentIn version 3.1
SEQ ID NO 3
LENGTH: 132
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Peptide
US-09-660-465A-3

Query Match 45.6%; Score 36; DB 4; Length 132;
Best Local Similarity 50.0%; Pred. No. 31;
Matches 6; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 2 IDIFASKNFHLQ 13
DB 70 LNLAQSKNFHLR 81

RESULT 15
US-07-800-366-1
Sequence 1, Application US/07800366
Patent No. 5250296
GENERAL INFORMATION:
APPLICANT: OOTSU, Koichiro
TITLE OF INVENTION: IMMUNOSTIMULANT AGENT CONTAINING
TITLE OF INVENTION: INTERLEUKIN-2 AND 5'-DEOXY-5-FLUOROURIDINE
NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
ADDRESSEE: DAVID G. CONLIN;
ADDRESSEE: CUSHMAN
STREET: 130 Water Street
DIKE, BRONSTEIN, ROBERTS &

CITY: Boston
STATE: Massachusetts
COUNTRY: US
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/800,366
FILING DATE: 19911127
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Castle, Donald R.
REGISTRATION NUMBER: 24,220
REFERENCE/DOCKET NUMBER: 41417(281)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 523-3400
TELEFAX: (617) 523-6440
TELEX: 200291 STRE UR
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 133 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
MOLECULE TYPE: protein
US-07-800-366-1

Query Match 45.6%; Score 36; DB 1; Length 133;
Best Local Similarity 50.0%; Pred. No. 31;
Matches 6; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 2 IDIFASKNFHLQ 13
DB 70 LNLAQSKNFHLR 81

Search completed: April 19, 2004, 12:38:22
Job time : 15.6939 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:05 ; Search time 68.3163 Seconds
(without alignments)
60.529 Million cell updates/sec

Title: US-09-308-027A-18

Perfect score: 79

Sequence: 1 ASKNFHLOKNTIGT 15

Scoring table:

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Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:*
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13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*
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16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
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18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
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| 1 | 79 | 100.0 | 15 | 14 | US-10-354-240-121 |
| 2 | 79 | 100.0 | 20 | 14 | US-10-354-240-121 |
| 3 | 79 | 100.0 | 80 | 14 | US-10-354-240-1 |
| 4 | 79 | 100.0 | 105 | 14 | US-10-354-240-2 |
| 5 | 79 | 100.0 | 134 | 14 | US-10-354-240-3 |
| 6 | 79 | 100.0 | 514 | 10 | US-09-847-208-69 |
| 7 | 54 | 68.4 | 15 | 14 | US-10-354-240-122 |
| 8 | 53 | 67.1 | 15 | 14 | US-10-354-240-120 |
| 9 | 44 | 55.7 | 83 | 12 | US-10-424-599-237164 |
| 10 | 43 | 54.4 | 83 | 12 | US-10-220-120-392 |
| 11 | 43 | 54.4 | 88 | 12 | US-10-424-599-231574 |
| 12 | 43 | 54.4 | 97 | 10 | US-09-909-567B-43 |
| 13 | 43 | 54.4 | 102 | 15 | US-10-264-049-4052 |
| 14 | 43 | 54.4 | 121 | 9 | US-09-925-301-1576 |
| 15 | 43 | 54.4 | 137 | 9 | US-09-925-300-1786 |

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| 16 | 42 | 53.2 | 75 | 12 | US-10-424-599-177955 | Sequence 177955, |
| 17 | 41 | 51.9 | 348 | 12 | US-10-221-278-673 | Sequence 673, App |
| 18 | 41 | 51.9 | 348 | 15 | US-10-291-172-673 | Sequence 673, App |
| 19 | 41 | 51.9 | 391 | 12 | US-10-282-122A-52549 | Sequence 52549, A |
| 20 | 41 | 51.9 | 530 | 15 | US-10-369-493-22022 | Sequence 22022, A |
| 21 | 41 | 51.9 | 538 | 12 | US-10-282-122A-52280 | Sequence 52280, A |
| 22 | 41 | 51.9 | 858 | 10 | US-09-957-880A-2 | Sequence 2, Appli |
| 23 | 40 | 50.6 | 212 | 9 | US-09-189-833B-2 | Sequence 2, Appli |
| 24 | 40 | 50.6 | 212 | 9 | US-09-302-705-2 | Sequence 2, Appli |
| 25 | 40 | 50.6 | 254 | 15 | US-10-264-237-2147 | Sequence 2147, Ap |
| 26 | 40 | 50.6 | 289 | 12 | US-10-423-114-58456 | Sequence 58456, A |
| 27 | 40 | 50.6 | 313 | 12 | US-10-206-915-554 | Sequence 554, App |
| 28 | 40 | 50.6 | 313 | 12 | US-10-193-670-554 | Sequence 554, App |
| 29 | 40 | 50.6 | 313 | 12 | US-10-221-278-297 | Sequence 297, App |
| 30 | 40 | 50.6 | 313 | 12 | US-10-201-858-554 | Sequence 554, App |
| 31 | 40 | 50.6 | 313 | 12 | US-10-205-890-554 | Sequence 554, App |
| 32 | 40 | 50.6 | 313 | 12 | US-10-208-024-554 | Sequence 554, App |
| 33 | 40 | 50.6 | 313 | 12 | US-10-201-853-554 | Sequence 554, App |
| 34 | 40 | 50.6 | 313 | 12 | US-10-174-581-554 | Sequence 554, App |
| 35 | 40 | 50.6 | 313 | 12 | US-10-176-483-554 | Sequence 554, App |
| 36 | 40 | 50.6 | 313 | 12 | US-10-176-749-554 | Sequence 554, App |
| 37 | 40 | 50.6 | 313 | 12 | US-10-176-914-554 | Sequence 554, App |
| 38 | 40 | 50.6 | 313 | 12 | US-10-176-915-554 | Sequence 554, App |
| 39 | 40 | 50.6 | 313 | 12 | US-10-176-484-554 | Sequence 554, App |
| 40 | 40 | 50.6 | 313 | 12 | US-10-180-550-554 | Sequence 554, App |
| 41 | 40 | 50.6 | 313 | 12 | US-10-183-014-554 | Sequence 554, App |
| 42 | 40 | 50.6 | 313 | 12 | US-10-187-738-554 | Sequence 554, App |
| 43 | 40 | 50.6 | 313 | 12 | US-10-187-740-554 | Sequence 554, App |
| 44 | 40 | 50.6 | 313 | 12 | US-10-187-883-554 | Sequence 554, App |
| 45 | 40 | 50.6 | 313 | 12 | US-10-194-363-554 | Sequence 554, App |

ALIGNMENTS

RESULT 1
US-10-354-240-121
; Sequence 121, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinoxi
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103DI
; CURRENT APPLICATION NUMBER: 2003-01-29
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 121
; LENGTH: 15
; TYPE: PPT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 38
US-10-354-240-121

Query Match 100.0%; Score 79; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 7e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ASKNFHLOKNTIGT 15

Db 1 ASKNFHLOKNTIGT 15


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US-09-847-208-69
; Sequence 69, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67,002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 69
; LENGTH: 514
; TYPE: PRT
; ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-69
Query Match      100.0%; Score 79; DB 10; Length 514;
Best Local Similarity 100.0%; Pred. No. 2.8e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 ASKNFHLOKNTTGTG 15
DB      240 ASKNFHLOKNTTGTG 254

RESULT 7
US-10-354-240-122
; Sequence 122, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 122
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 39
US-10-354-240-122
Query Match      68.4%; Score 54; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      6 HLOKNTTGTG 15
DB      1 HLOKNTTGTG 10

RESULT 8
US-10-354-240-120
; Sequence 120, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
US-09-847-208-69
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 122
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 39
US-10-354-240-122
Query Match      68.4%; Score 54; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      6 HLOKNTTGTG 15
DB      1 HLOKNTTGTG 10

RESULT 8
US-10-354-240-120
; Sequence 120, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
US-09-847-208-69
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 120
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 37
US-10-354-240-120
Query Match      67.1%; Score 53; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.023;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 ASKNFHLOKN 10
DB      6 ASKNFHLOKN 15

RESULT 9
US-10-424-599-237164
; Sequence 237164, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 237164
; LENGTH: 83
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(83)
; OTHER INFORMATION: unsure at all Xaa locations
; OTHER INFORMATION: Clone ID: PAT_MRT3847_56184C.1.pep
US-10-424-599-237164
Query Match      55.7%; Score 44; DB 12; Length 83;
Best Local Similarity 69.2%; Pred. No. 5.1;
Matches 9; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY      2 SKNFHLOKNTTGT 14
DB      24 SKAXHLOKTCGT 36

RESULT 10
US-10-220-120-392
; Sequence 392, Application US/10220120
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Publication No. US20040048253A1
GENERAL INFORMATION:
APPLICANT: INCYTE GENOMICS, INC.
APPLICANT: PANZER, Scott R.
APPLICANT: SPIRO, Peter A.
APPLICANT: BANVILLE, Steven C.
APPLICANT: SHAH, Purvi
APPLICANT: CHALUP, Michael S.
APPLICANT: CHANG, Simon C.
APPLICANT: CHEN, Alice
APPLICANT: D'SA, Steven A.
APPLICANT: AMSHEY, Stefan
APPLICANT: DAHL, Christopher R.
APPLICANT: DAM, Tam C.
APPLICANT: DANIELS, Susan E.
APPLICANT: DUFOUR, Gerard E.
APPLICANT: FLORES, Vincent
APPLICANT: FONG, Willy T.
APPLICANT: GREENAWALT, Lila B.
APPLICANT: HILLMAN, Jennifer L.
APPLICANT: JONES, Anissa L.
APPLICANT: LIU, Tommy F.
APPLICANT: ROSEBERRY, Ann M.
APPLICANT: ROSEN, Bruce H.
APPLICANT: RUSSO, Frank D.
APPLICANT: STOCKREHER, Theresa K.
APPLICANT: DAFFO, Abel
APPLICANT: WRIGHT, Rachel J.
APPLICANT: YAP, Pierre E.
APPLICANT: YU, Jimmy Y.
APPLICANT: BRADLEY, Diana L.
APPLICANT: BRATCHER, Shawn R.
APPLICANT: CHEN, Wensheng
APPLICANT: COHEN, Howard J.
APPLICANT: HODGSON, David M.
APPLICANT: LINCOLN, Stephen E.
APPLICANT: JACKSON, Stuart
TITLE OF INVENTION: MOLECULES FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: PT-1113 PCT
CURRENT APPLICATION NUMBER: US/10/220,120
PRIOR FILING DATE: 2002-08-26
PRIOR APPLICATION NUMBER: 60/184,777; 60/184,813; 60/184,797; 60/184,698; 60/184,774;
60/184,693; 60/184,771; 60/184,813; 60/184,773; 60/184,776;
60/184,769; 60/184,768; 60/184,837; 60/184,697; 60/184,841;
60/184,772; 60/185,213; 60/185,216; 60/204,863; 60/205,221;
60/204,815; 60/203,785; 60/204,821; 60/204,908; 60/204,226;
60/204,525; 60/205,285; 60/205,232; 60/205,323; 60/205,287;
60/205,324; 60/205,286
PRIOR FILING DATE: 2000-02-24; 2000-02-24; 2000-02-24; 2000-02-24;
2000-02-24; 2000-02-24; 2000-02-24; 2000-02-24;
2000-02-24; 2000-02-24; 2000-02-24; 2000-02-24;
2000-02-24; 2000-02-24; 2000-02-24; 2000-05-17;
2000-05-17; 2000-05-12; 2000-05-16; 2000-05-15;
2000-05-16; 2000-05-17; 2000-05-17; 2000-05-17;
2000-05-17; 2000-05-17
SOFTWARE: PERL Program
NUMBER OF SEQ ID NOS: 422
SEQ ID NO 392
LENGTH: 83
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc feature
OTHER INFORMATION: Incyte ID No. US20040048253A1 LI:035973.1.orf3:2000MAY01
US-10-220-120-392
Query Match 54.4%; Score 43; DB 12; Length 83;
Best Local Similarity 66.7%; Pred. No. 7.6;
Matches 8; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
QY 2 SKNFHLQKNTIG 13
DB 34 SKAYHLQKSTCG 45
RESULT 11
US-10-424-599-231574
Sequence 231574, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: La Rosa Thomas J
APPLICANT: Kovalic David K
APPLICANT: Zhou Yihua
APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 39-21(53223)B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 231574
LENGTH: 88
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
NAME/KEY: unsure
LOCATION: (1)..(88)
OTHER INFORMATION: unsure at all Xaa locations
OTHER INFORMATION: Clone ID: PAT_MBT3847_51132C.1.pep
US-10-424-599-231574
Query Match 54.4%; Score 43; DB 12; Length 88;
Best Local Similarity 66.7%; Pred. No. 8.1;
Matches 8; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
QY 2 SKNFHLQKNTIG 13
DB 24 SKAYHLQKSTCG 35
RESULT 12
US-09-909-567B-43
Sequence 43, Application US/0909567B
Publication No. US20030022257A1
GENERAL INFORMATION:
APPLICANT: Macina, Roberto A.
APPLICANT: Nair, Manoj
APPLICANT: Chen, Seiyu
TITLE OF INVENTION: Compositions and Methods Relating to Lung Specific Genes
FILE REFERENCE: DEX-0214
CURRENT APPLICATION NUMBER: US/09/909,567B
CURRENT FILING DATE: 2001-07-20
PRIOR APPLICATION NUMBER: 60/219,834
PRIOR FILING DATE: 2000-07-21
NUMBER OF SEQ ID NOS: 56
SOFTWARE: PatentIn version 3.1
SEQ ID NO 43
LENGTH: 97
TYPE: PRT
ORGANISM: Homo sapien
US-09-909-567B-43
Query Match 54.4%; Score 43; DB 10; Length 97;
Best Local Similarity 66.7%; Pred. No. 9;
Matches 8; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
QY 2 SKNFHLQKNTIG 13
DB 24 SKAYHLQKSTCG 35
RESULT 13
US-10-264-049-4052
Sequence 4052, Application US/10264049
Publication No. US20040005579A1
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; GENERAL INFORMATION:
; APPLICANT: Birse et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PA133P1
; CURRENT APPLICATION NUMBER: US/10/264,049
; CURRENT FILING DATE: 2002-10-04
; PRIOR APPLICATION NUMBER: PCT/US01/18569
; PRIOR FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: US 60/209,467
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 4360
; SOFTWARE: PatentIn Ver. 3.1
; SEQ ID NO 4052
; LENGTH: 102
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-264-049-4052

Query Match 54.4%; Score 43; DB 15; Length 102;
Best Local Similarity 66.7%; Pred. No. 9.4;
Matches 8; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 2 SKNFHLQKNTIG 13
Db 29 SKAYHLQKSTCG 40

RESULT 14

US-09-925-301-1576
; Sequence 1576, Application US/09925301
; Patent No. US20020052308A1
; GENERAL INFORMATION:

; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA106
; CURRENT APPLICATION NUMBER: US/09/925,301
; CURRENT FILING DATE: 2004-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05882
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1694
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1576
; LENGTH: 121
; TYPE: PRT
; ORGANISM: Homo sapiens

; FEATURE:
; NAME/KEY: SITE
; LOCATION: (108)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (114)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (116)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-925-301-1576

Query Match 54.4%; Score 43; DB 9; Length 121;
Best Local Similarity 66.7%; Pred. No. 11;
Matches 8; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 2 SKNFHLQKNTIG 13
Db 29 SKAYHLQKSTCG 40

RESULT 15

US-09-925-300-1786
; Sequence 1786, Application US/09925300
; Patent No. US20020151681A1
; GENERAL INFORMATION:

; APPLICANT: Craig Rosen,
; APPLICANT: Steve Ruben
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA101
; CURRENT APPLICATION NUMBER: US/09/925,300
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05988
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1890
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1786
; LENGTH: 137
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (2)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (5)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (7)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (9)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (11)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (14)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (38)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (57)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-925-300-1786

Query Match 54.4%; Score 43; DB 9; Length 137;
Best Local Similarity 66.7%; Pred. No. 13;
Matches 8; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 2 SKNFHLQKNTIG 13
Db 64 SKAYHLQKSTCG 75

Search completed: April 19, 2004, 11:29:29
Job time : 68.3163 secs

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OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:05 ; Search time 68.3163 Seconds
(without alignments)
60.529 Million cell updates/sec

Title: US-09-308-027a-17

Perfect score: 79

Sequence: 1 GIDIFASKNFHLQKN 15

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:*
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10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
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18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|----|----------------------|
| 1 | 79 | 100.0 | 15 | 14 | US-10-354-240-120 |
| 2 | 79 | 100.0 | 20 | 14 | US-10-354-240-161 |
| 3 | 79 | 100.0 | 514 | 10 | US-09-847-208-69 |
| 4 | 73 | 92.4 | 80 | 14 | US-10-354-240-1 |
| 5 | 73 | 92.4 | 105 | 14 | US-10-354-240-2 |
| 6 | 73 | 92.4 | 134 | 14 | US-10-354-240-3 |
| 7 | 53 | 67.1 | 15 | 14 | US-10-354-240-121 |
| 8 | 51 | 64.6 | 15 | 14 | US-10-354-240-119 |
| 9 | 44 | 55.7 | 550 | 15 | US-10-369-493-3540 |
| 10 | 43 | 54.4 | 109 | 12 | US-10-424-599-215307 |
| 11 | 40 | 50.6 | 65 | 12 | US-10-424-599-147453 |
| 12 | 40 | 50.6 | 66 | 12 | US-10-425-114-54201 |
| 13 | 40 | 50.6 | 1021 | 15 | US-10-369-493-21989 |
| 14 | 39 | 49.4 | 280 | 12 | US-10-282-122A-63449 |
| 15 | 39 | 49.4 | 280 | 12 | US-10-282-122A-64267 |

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| 16 | 49.4 | 391 | 12 | US-10-282-122A-52549 | Sequence 52549, A |
| 17 | 48.1 | 148 | 12 | US-10-424-599-261352 | Sequence 261352, A |
| 18 | 48.1 | 155 | 14 | US-10-424-599-147 | Sequence 147, App |
| 19 | 48.1 | 255 | 12 | US-10-424-599-253350 | Sequence 253350, A |
| 20 | 48.1 | 324 | 14 | US-10-205-213-194 | Sequence 194, App |
| 21 | 48.1 | 435 | 9 | US-09-841-132-504 | Sequence 504, App |
| 22 | 48.1 | 435 | 15 | US-10-312-273-25 | Sequence 25, App |
| 23 | 48.1 | 448 | 15 | US-10-289-762-216 | Sequence 216, App |
| 24 | 46.8 | 64 | 14 | US-10-029-386-28572 | Sequence 28572, A |
| 25 | 46.8 | 111 | 12 | US-10-424-599-226680 | Sequence 226680, A |
| 26 | 46.8 | 160 | 14 | US-10-017-161-1156 | Sequence 1156, App |
| 27 | 46.8 | 160 | 15 | US-10-292-798-976 | Sequence 976, App |
| 28 | 46.8 | 212 | 12 | US-10-282-122A-63038 | Sequence 63038, A |
| 29 | 46.8 | 223 | 12 | US-10-424-599-232666 | Sequence 232666, A |
| 30 | 46.8 | 237 | 12 | US-10-363-616-305 | Sequence 305, App |
| 31 | 46.8 | 238 | 9 | US-09-738-626-5982 | Sequence 5982, App |
| 32 | 46.8 | 336 | 14 | US-10-032-585-7489 | Sequence 7489, App |
| 33 | 46.8 | 356 | 12 | US-10-282-122A-56919 | Sequence 56919, A |
| 34 | 46.8 | 357 | 12 | US-10-210-281-46 | Sequence 46, Appl |
| 35 | 46.8 | 392 | 12 | US-10-210-281-48 | Sequence 48, Appl |
| 36 | 46.8 | 446 | 12 | US-10-282-122A-68910 | Sequence 68910, A |
| 37 | 46.8 | 513 | 12 | US-10-425-114-69529 | Sequence 69529, A |
| 38 | 46.8 | 517 | 11 | US-09-946-290-6 | Sequence 6, Appl |
| 39 | 46.8 | 542 | 12 | US-10-424-599-234091 | Sequence 234091, A |
| 40 | 46.8 | 745 | 12 | US-10-282-122A-53256 | Sequence 53256, A |
| 41 | 46.8 | 802 | 12 | US-10-425-114-38402 | Sequence 38402, A |
| 42 | 46.2 | 988 | 14 | US-10-101-464A-76 | Sequence 76, Appl |
| 43 | 45.6 | 57 | 12 | US-10-424-599-27249 | Sequence 27249, App |
| 44 | 45.6 | 107 | 15 | US-10-108-260A-3686 | Sequence 3686, App |
| 45 | 45.6 | 129 | 14 | US-10-172-399-12 | Sequence 12, Appl |

ALIGNMENTS

RESULT 1

US-10-354-240-120
; Sequence 120, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Diseases
; FILE REFERENCE: SPO-103DI
; CURRENT APPLICATION NUMBER: US/10354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 120
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 37
US-10-354-240-120

Query Match 100.0%; Score 79; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 6.3e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GIDIFASKNFHLQKN 15

DB 1 GIDIFASKNFHLQKN 15

RESULT 2
US-10-354-240-161
; Sequence 161, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akimori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; PRIOR FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 161
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(20)
; OTHER INFORMATION: Figure 7, Row d
US-10-354-240-161

Query Match 100.0%; Score 79; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.5e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GIDIFASKNFHLQKN 15
Db 1 GIDIFASKNFHLQKN 15

RESULT 3
US-09-847-208-69
; Sequence 69, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; PRIOR FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 69
; LENGTH: 514
; TYPE: PRT
; ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-69

Query Match 100.0%; Score 79; DB 10; Length 514;
Best Local Similarity 100.0%; Pred. No. 2.7e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GIDIFASKNFHLQKN 15
Db 235 GIDIFASKNFHLQKN 249

RESULT 4
US-10-354-240-1
; Sequence 1, Application US/10354240

; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akimori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; PRIOR FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 1
; LENGTH: 80
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
US-10-354-240-1

Query Match 92.4%; Score 73; DB 14; Length 80;
Best Local Similarity 100.0%; Pred. No. 4.1e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 IDIFASKNFHLQKN 15
Db 31 IDIFASKNFHLQKN 44

RESULT 5
US-10-354-240-2
; Sequence 2, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akimori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 2
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
US-10-354-240-2

Query Match 92.4%; Score 73; DB 14; Length 105;
Best Local Similarity 100.0%; Pred. No. 5.5e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 IDIFASKNFHLQKN 15
Db 31 IDIFASKNFHLQKN 44

RESULT 6
US-10-354-240-3
; Sequence 3, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio

; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 3
; LENGTH: 134
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
US-10-354-240-3

Query Match 92.4%; Score 73; DB 14; Length 134;
Best Local Similarity 100.0%; Pred. No. 7.1e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 IDIFASKNFHLQKN 15
Db 31 IDIFASKNFHLQKN 44

RESULT 7
US-10-354-240-121
; Sequence 121, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Kume, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 121
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 38
US-10-354-240-121

Query Match 67.1%; Score 53; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 ASKNFHLQKN 15
Db 1 ASKNFHLQKN 10

RESULT 8
US-10-354-240-119
; Sequence 119, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:

; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 119
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 36
US-10-354-240-119

Query Match 64.6%; Score 51; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.045;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GIDIFASKNF 10
Db 6 GIDIFASKNF 15

RESULT 9
US-10-369-493-3540
; Sequence 3540, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 3540
; LENGTH: 550
; TYPE: PRT
; ORGANISM: Neurospora crassa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(550)
; OTHER INFORMATION: unsure at all Xaa locations
US-10-369-493-3540

Query Match 55.7%; Score 44; DB 15; Length 550;
Best Local Similarity 57.1%; Pred. No. 34;
Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

Qy 2 IDIFASKNFHLQKN 15
Db 464 VDVVRKSNFQLQVN 477

RESULT 10
US-10-424-599-215307

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; Sequence 215307, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 215307
; LENGTH: 109
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_36447C.1.pep
US-10-424-599-215307

Query Match 54.4%; Score 43; DB 12; Length 109;
Best Local Similarity 60.0%; Pred. No. 9.1;
Matches 9; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GIDIFASKNFHLQKN 15
DB 33 GHDIFFEKNIHWQLN 47

RESULT 11
US-10-424-599-147453
; Sequence 147453, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 147453
; LENGTH: 65
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_104169C.1.pep
US-10-424-599-147453

Query Match 50.6%; Score 40; DB 12; Length 65;
Best Local Similarity 46.7%; Pred. No. 17;
Matches 7; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 1 GIDIFASKNFHLQKN 15
DB 39 GLEMFTHSFLIQKN 53

RESULT 12
US-10-425-114-54201
; Sequence 54201, Application US/10425114
; Publication No. US2004003488A1
; GENERAL INFORMATION:
; APPLICANT: Liu Jingdong
; APPLICANT: Zhou Yihua
; APPLICANT: Kovalic David K
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei

```

```

; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 54201
; LENGTH: 66
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: UC-ZMFLB73210E04_FLI.pep
US-10-425-114-54201

Query Match 50.6%; Score 40; DB 12; Length 66;
Best Local Similarity 60.0%; Pred. No. 18;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 3 DIFASKNFHL 12
DB 57 DVFKQNFHL 66

RESULT 13
US-10-369-493-21989
; Sequence 21989, Application US/10369493
; Publication No. US2003023675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 21989
; LENGTH: 1021
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-10-369-493-21989

Query Match 50.6%; Score 40; DB 15; Length 1021;
Best Local Similarity 50.0%; Pred. No. 3.3e+02;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 2 IDIFASKNFHLQKN 15
DB 115 INFLSNFHESEN 128

RESULT 14
US-10-282-122A-63449
; Sequence 63449, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.

```

; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 63449
; LENGTH: 280
; TYPE: PRT
; ORGANISM: Mycoplasma genitalium
US-10-282-122A-63449

Query Match 49.4%; Score 39; DB 12; Length 280;
Best Local Similarity 63.6%; Pred. No. 1.2e+02;
Matches 7; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
Qy 3 DIFASKNFHLQ 13
Db 114 DLINNNFHLQ 124

RESULT 15
US-10-282-122A-64267
; Sequence 64267, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09

; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 64267
; LENGTH: 280
; TYPE: PRT
; ORGANISM: Mycoplasma pneumoniae
US-10-282-122A-64267
Query Match 49.4%; Score 39; DB 12; Length 280;
Best Local Similarity 63.6%; Pred. No. 1.2e+02;
Matches 7; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
Qy 3 DIFASKNFHLQ 13
Db 114 DLHSSNFHLQ 124
Search completed: April 19, 2004, 11:29:29
Job time : 68.3163 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:39 ; Search time 14.6939 Seconds
(without alignments)
52.702 Million cell updates/sec

Title: US-09-308-027A-16
Perfect score: 85
Sequence: 1 PEFHLVFGNCEGVKI 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*

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- 2: /cgn2_6/prodata/2/1aa/5B_COMB.pep:*
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- 4: /cgn2_6/prodata/2/1aa/6B_COMB.pep:*
- 5: /cgn2_6/prodata/2/1aa/PCTUS_COMB.pep:*
- 6: /cgn2_6/prodata/2/1aa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match % | Length | DB ID | Description |
|------------|-------|---------------|--------|-------|----------------------|
| 1 | 85 | 100.0 | 127 | 3 | US-08-467-023-188 |
| 2 | 85 | 100.0 | 514 | 3 | US-08-467-023-134 |
| 3 | 41 | 48.2 | 838 | 4 | US-09-235-451-2 |
| 4 | 41 | 48.2 | 838 | 4 | US-09-132-316-3 |
| 5 | 41 | 48.2 | 839 | 3 | US-09-667-422-9 |
| 6 | 41 | 48.2 | 839 | 3 | US-09-197-636-2 |
| 7 | 41 | 48.2 | 839 | 3 | US-09-197-636-4 |
| 8 | 41 | 48.2 | 839 | 3 | US-09-197-636-8 |
| 9 | 41 | 48.2 | 839 | 4 | US-09-235-451-34 |
| 10 | 41 | 48.2 | 839 | 4 | US-09-533-220A-2 |
| 11 | 41 | 48.2 | 839 | 4 | US-09-667-422-4 |
| 12 | 39 | 45.9 | 418 | 2 | US-08-494-907-18 |
| 13 | 39 | 45.9 | 418 | 5 | PCT-US96-10986-18 |
| 14 | 38 | 44.7 | 91 | 4 | US-08-858-207A-396 |
| 15 | 38 | 44.7 | 212 | 4 | US-09-328-352-6684 |
| 16 | 38 | 44.7 | 224 | 4 | US-09-134-000C-5452 |
| 17 | 38 | 44.7 | 295 | 3 | US-09-150-133-13 |
| 18 | 38 | 44.7 | 295 | 3 | US-09-150-141-13 |
| 19 | 38 | 44.7 | 295 | 3 | US-09-374-493-13 |
| 20 | 38 | 44.7 | 295 | 3 | US-09-374-824-13 |
| 21 | 38 | 44.7 | 295 | 3 | US-09-374-492-13 |
| 22 | 38 | 44.7 | 295 | 4 | US-09-785-343-13 |
| 23 | 38 | 44.7 | 507 | 1 | US-08-457-274A-22 |
| 24 | 38 | 44.7 | 507 | 5 | PCT-US95-05758-22 |
| 25 | 38 | 44.7 | 525 | 3 | US-09-273-163-5 |
| 26 | 38 | 44.7 | 530 | 4 | US-09-252-991A-21963 |
| 27 | 38 | 44.7 | 588 | 4 | US-09-252-991A-25141 |

| | | | | | | |
|----|----|------|-----|---|----------------------|-------------------|
| 28 | 38 | 44.7 | 627 | 3 | US-09-273-163-4 | Sequence 4, Appli |
| 29 | 38 | 44.7 | 660 | 3 | US-09-273-163-6 | Sequence 6, Appli |
| 30 | 37 | 43.5 | 50 | 4 | US-09-205-258-498 | Sequence 498, App |
| 31 | 37 | 43.5 | 108 | 4 | US-09-345-236B-29 | Sequence 29, Appl |
| 32 | 37 | 43.5 | 178 | 3 | US-08-478-316-29 | Sequence 29, Appl |
| 33 | 37 | 43.5 | 178 | 4 | US-09-019-793A-29 | Sequence 29, Appl |
| 34 | 37 | 43.5 | 347 | 4 | US-09-489-039A-8605 | Sequence 8605, Ap |
| 35 | 37 | 43.5 | 507 | 4 | US-09-205-258-492 | Sequence 492, App |
| 36 | 37 | 43.5 | 524 | 4 | US-09-489-039A-12626 | Sequence 12626, A |
| 37 | 37 | 43.5 | 750 | 3 | US-08-202-841A-2 | Sequence 2, Appli |
| 38 | 36 | 42.4 | 85 | 3 | US-08-855-531D-9 | Sequence 9, Appli |
| 39 | 36 | 42.4 | 85 | 3 | US-08-855-526B-9 | Sequence 9, Appli |
| 40 | 36 | 42.4 | 137 | 1 | US-08-131-625B-9 | Sequence 9, Appli |
| 41 | 36 | 42.4 | 178 | 2 | US-08-793-464A-7 | Sequence 7, Appli |
| 42 | 36 | 42.4 | 178 | 3 | US-08-686-968C-8 | Sequence 8, Appli |
| 43 | 36 | 42.4 | 178 | 3 | US-08-478-316-24 | Sequence 24, Appl |
| 44 | 36 | 42.4 | 178 | 3 | US-08-478-316-25 | Sequence 25, Appl |
| 45 | 36 | 42.4 | 178 | 3 | US-08-478-316-26 | Sequence 26, Appl |

ALIGNMENTS

RESULT 1
US-08-467-023-188
; Sequence 188, Application US/08467023
; Patent No. 5090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; NUMBER OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 188:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 127 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal

US-08-467-023-188

Query Match 100.0%; Score 85; DB 3; Length 127;
Best Local Similarity 100.0%; Pred. No. 8.9e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 PEFHLVFGNCEGVKI 15
Db 52 PEFHLVFGNCEGVKI 66

RESULT 2

US-08-467-023-134
Sequence 134, Application US/08467023
Patent No. 6090386

GENERAL INFORMATION:
APPLICANT: Griffith, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From
TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 134:
SEQUENCE CHARACTERISTICS:
LENGTH: 514 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein

Query Match 100.0%; Score 85; DB 3; Length 514;
Best Local Similarity 100.0%; Pred. No. 4e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 PEFHLVFGNCEGVKI 15
Db 205 PEFHLVFGNCEGVKI 219

RESULT 3

US-09-235-451-2

Sequence 2, Application US/09235451

GENERAL INFORMATION:
APPLICANT: Julius, David J.
APPLICANT: Caterina, Michael J.
APPLICANT: Brake, Anthony J.
TITLE OF INVENTION: NUCLEIC ACID SEQUENCES ENCODING
TITLE OF INVENTION: CAPSAICIN RECEPTOR AND CAPSAICIN RECEPTOR-RELATED
FILE REFERENCE: 9076/084CIP
CURRENT APPLICATION NUMBER: US/09/235,451
CURRENT FILING DATE: 1999-01-22
PRIOR APPLICATION NUMBER: 60/072,151
PRIOR FILING DATE: 1998-01-22
PRIOR APPLICATION NUMBER: 08/915,461
PRIOR FILING DATE: 1997-08-20
NUMBER OF SEQ ID NOS: 48
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 2
LENGTH: 838
TYPE: PRT
ORGANISM: R. rattus
US-09-235-451-2

Query Match 48.2%; Score 41; DB 4; Length 838;
Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 GNCCEGVK 14

Db 764 GNCCEGVK 770

RESULT 4

US-09-132-316-3
Sequence 3, Application US/09132316B
Patent No. 644440

GENERAL INFORMATION:
APPLICANT: Young, Paul E.
APPLICANT: Ruben, Steven M.
TITLE OF INVENTION: Vanilloid Receptor-2
FILE REFERENCE: 1498.1110000
CURRENT APPLICATION NUMBER: US/09/132,316B
CURRENT FILING DATE: 1998-08-11
EARLIER APPLICATION NUMBER: US 60/040,163
EARLIER FILING DATE: 1997-03-07
EARLIER APPLICATION NUMBER: PCT/US98/04493
EARLIER FILING DATE: 1998-03-06
NUMBER OF SEQ ID NOS: 67
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 3
LENGTH: 838
TYPE: PRT
ORGANISM: Rattus norvegicus
US-09-132-316-3

Query Match 48.2%; Score 41; DB 4; Length 838;
Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 GNCCEGVK 14

Db 764 GNCCEGVK 770

RESULT 5

US-09-667-422-9
Sequence 9, Application US/09667422
Patent No. 6482611
GENERAL INFORMATION:
APPLICANT: Cortright, Daniel
APPLICANT: Krause, James
TITLE OF INVENTION: Human Capsaicin Receptor and Uses Thereof
FILE REFERENCE: HCR

;; CURRENT APPLICATION NUMBER: US/09/667,422
;; CURRENT FILING DATE: 2001-06-07
;; NUMBER OF SEQ ID NOS: 13
;; SOFTWARE: PatentIn Ver. 2.0
;; SEQ ID NO 9
;; LENGTH: 838
;; TYPE: PRT
;; ORGANISM: Rattus sp.
;; PUBLICATION INFORMATION:
;; AUTHORS: Caterina, Michael J.
;; AUTHORS: Schumacher, Mark A.
;; AUTHORS: Tomimaga, Makoto
;; AUTHORS: Rosen, Tobias A.
;; TITLE: The capsaicin receptor: a heat-activated ion channel in
;; TITLE: the pain pathway
;; JOURNAL: Nature
;; VOLUME: 389
;; PAGES: 816-824
;; DATE: 1997
;;
US-09-667-422-9

Query Match 48.2%; Score 41; DB 4; Length 838;
Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 GNCGEVK 14
Db 764 GNCGEVK 770

RESULT 6
US-09-197-636-2
;; Sequence 2, Application US/09197636
;; Patent No. 6239267
;; GENERAL INFORMATION:
;; APPLICANT: DUCKWORTH, DAVID
;; APPLICANT: HAYES, PHILIP
;; APPLICANT: MEADOWS, HELEN
;; APPLICANT: DAVIS, JOHN
;; TITLE OF INVENTION: NOVEL COMPOUNDS
;; NUMBER OF SEQUENCES: 8
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Ratner & Prestia
;; STREET: P.O. Box 980
;; CITY: Valley Forge
;; STATE: PA
;; COUNTRY: US
;; ZIP: 19482-0980
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Diskette
;; COMPUTER: IBM Compatible
;; OPERATING SYSTEM: DOS
;; SOFTWARE: FastSeq for Windows Version 2.0
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/09/197,636
;; FILING DATE: 23-NOV-1998
;; CLASSIFICATION:
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: UK 9805137.8
;; FILING DATE: 12-MAR-1998
;; APPLICATION NUMBER: UK 9815791.0
;; FILING DATE: 21-JUL-1998
;; APPLICATION NUMBER: UK 9819278.4
;; FILING DATE: 03-SEP-1998
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Prestia, Paul F
;; REGISTRATION NUMBER: 23,031
;; REFERENCE/DOCKET NUMBER: GP-30075
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 601-407-0700
;; TELEFAX: 610-407-0701
;; TELEX: 846169
;; INFORMATION FOR SEQ ID NO: 2:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 839 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
US-09-197-636-4

;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 839 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
US-09-197-636-2

Query Match 48.2%; Score 41; DB 3; Length 839;
Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 GNCGEVK 14
Db 765 GNCGEVK 771

RESULT 7
US-09-197-636-4
;; Sequence 4, Application US/09197636
;; Patent No. 6239267
;; GENERAL INFORMATION:
;; APPLICANT: DUCKWORTH, DAVID
;; APPLICANT: HAYES, PHILIP
;; APPLICANT: MEADOWS, HELEN
;; APPLICANT: DAVIS, JOHN
;; TITLE OF INVENTION: NOVEL COMPOUNDS
;; NUMBER OF SEQUENCES: 8
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Ratner & Prestia
;; STREET: P.O. Box 980
;; CITY: Valley Forge
;; STATE: PA
;; COUNTRY: US
;; ZIP: 19482-0980
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Diskette
;; COMPUTER: IBM Compatible
;; OPERATING SYSTEM: DOS
;; SOFTWARE: FastSeq for Windows Version 2.0
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/09/197,636
;; FILING DATE: 23-NOV-1998
;; CLASSIFICATION:
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: UK 9805137.8
;; FILING DATE: 12-MAR-1998
;; APPLICATION NUMBER: UK 9815791.0
;; FILING DATE: 21-JUL-1998
;; APPLICATION NUMBER: UK 9819278.4
;; FILING DATE: 03-SEP-1998
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Prestia, Paul F
;; REGISTRATION NUMBER: 23,031
;; REFERENCE/DOCKET NUMBER: GP-30075
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 601-407-0700
;; TELEFAX: 610-407-0701
;; TELEX: 846169
;; INFORMATION FOR SEQ ID NO: 4:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 839 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
US-09-197-636-4

Query Match 48.2%; Score 41; DB 3; Length 839;
Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 GNCGEVK 14

Db 765 GNCEGVK 771

|||||

US-09-197-636-8

RESULT 8

US-09-197-636-8

Sequence 8, Application US/09197636

Patent No. 6239267

GENERAL INFORMATION:

APPLICANT: DUCKWORTH, DAVID

APPLICANT: HAYES, PHILIP

APPLICANT: MEADOWS, HELEN

APPLICANT: DAVIS, JOHN

TITLE OF INVENTION: NOVEL COMPOUNDS

NUMBER OF SEQUENCES: 8

CORRESPONDENCE ADDRESS:

ADDRESSEE: Ratner & Prestia

STREET: P.O. Box 980

CITY: Valley Forge

STATE: PA

COUNTRY: US

ZIP: 19482-0980

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FastSeq for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/197,636

FILING DATE: 23-NOV-1998

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: UK 9805137.8

FILING DATE: 12-MAR-1998

APPLICATION NUMBER: UK 9815791.0

FILING DATE: 21-JUL-1998

APPLICATION NUMBER: UK 9819278.4

FILING DATE: 03-SEP-1998

ATTORNEY/AGENT INFORMATION:

NAME: Prestia, Paul F

REGISTRATION NUMBER: 23,031

REFERENCE/DOCKET NUMBER: GP-30075

TELECOMMUNICATION INFORMATION:

TELEPHONE: 601-407-0700

TELEFAX: 610-407-0701

TELEX: 846169

INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:

LENGTH: 839 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: protein

US-09-197-636-8

Query Match 48.2%; Score 41; DB 3; Length 839;

Best Local Similarity 100.0%; Pred. No. 1.2e+02;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 GNCEGVK 14

Db 765 GNCEGVK 771

|||||

US-09-235-451-34

RESULT 9

US-09-235-451-34

Sequence 34, Application US/09235451

GENERAL INFORMATION:

APPLICANT: Julius, David J.

APPLICANT: Caterina, Michael J.

APPLICANT: Brake, Anthony J.

TITLE OF INVENTION: NUCLEIC ACID SEQUENCES ENCODING

TITLE OF INVENTION: CAPSAICIN RECEPTOR AND CAPSAICIN RECEPTOR-RELATED

FILE REFERENCE: 9076/084CIP

CURRENT APPLICATION NUMBER: US/09/235,451

CURRENT FILING DATE: 1999-01-22

PRIOR APPLICATION NUMBER: 60/072,151

PRIOR FILING DATE: 1998-01-22

PRIOR APPLICATION NUMBER: 08/915,461

PRIOR FILING DATE: 1997-08-20

NUMBER OF SEQ ID NOS: 48

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 34

LENGTH: 839

TYPE: PRT

ORGANISM: Homo sapiens

US-09-235-451-34

Query Match 48.2%; Score 41; DB 4; Length 839;

Best Local Similarity 100.0%; Pred. No. 1.2e+02;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 GNCEGVK 14

Db 765 GNCEGVK 771

|||||

US-09-533-220A-2

RESULT 10

US-09-533-220A-2

Sequence 2, Application US/09533220A

Patent No. 6406908

GENERAL INFORMATION:

APPLICANT: McIntyre, Peter

APPLICANT: James, Iain Fraser

TITLE OF INVENTION: Human Vanilloid Receptor

FILE REFERENCE: 4-30875A

CURRENT APPLICATION NUMBER: US/09/533,220A

CURRENT FILING DATE: 2000-03-23

PRIOR APPLICATION NUMBER: UNITED KINGDOM 9907097.1

PRIOR FILING DATE: 1999-03-26

NUMBER OF SEQ ID NOS: 4

SOFTWARE: PatentIn Ver. 1.30

SEQ ID NO 2

LENGTH: 839

TYPE: PRT

ORGANISM: Homo sapiens

US-09-533-220A-2

Query Match 48.2%; Score 41; DB 4; Length 839;

Best Local Similarity 100.0%; Pred. No. 1.2e+02;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 GNCEGVK 14

Db 765 GNCEGVK 771

|||||

US-09-667-422-4

RESULT 11

US-09-667-422-4

Sequence 4, Application US/09667422

Patent No. 6482611

GENERAL INFORMATION:

APPLICANT: Cortright, Daniel

APPLICANT: Krause, James

TITLE OF INVENTION: Human Capsaicin Receptor and Uses Thereof

FILE REFERENCE: HCR

CURRENT APPLICATION NUMBER: US/09/667,422

CURRENT FILING DATE: 2001-06-07

NUMBER OF SEQ ID NOS: 13

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 4

LENGTH: 839

TYPE: PRT

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: TRANSMEM
LOCATION: (434)..(455)
OTHER INFORMATION: TM1
NAME/KEY: TRANSMEM
LOCATION: (480)..(495)
OTHER INFORMATION: TM2
NAME/KEY: TRANSMEM
LOCATION: (510)..(530)
OTHER INFORMATION: TM3
NAME/KEY: TRANSMEM
LOCATION: (543)..(569)
OTHER INFORMATION: TM4
NAME/KEY: TRANSMEM
LOCATION: (577)..(596)
OTHER INFORMATION: TM5
NAME/KEY: TRANSMEM
LOCATION: (656)..(684)
OTHER INFORMATION: TM6
US-09-667-422-4

Query Match 48.2%; Score 41; DB 4; Length 839;
Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 GNCEGVK 14
Db 765 GNCEGVK 771

RESULT 12
US-08-494-907-18
Sequence 18, Application US/08494907
Patent No. 5953298
GENERAL INFORMATION:
APPLICANT: Thomasow, Linda S
APPLICANT: Bangera, Mahalakmi
APPLICANT: Weller, David M
APPLICANT: Cook, R. James
TITLE OF INVENTION: Sequences for Production of
TITLE OF INVENTION: 2,4-Diacetylphloroglucinol and Methods
NUMBER OF SEQUENCES: 20
CORRESPONDENCE ADDRESS:
ADDRESSEE: Margaret A. Connor, USDA-ARS
STREET: 800 Buchanan Street
CITY: Albany
STATE: CA
COUNTRY: USA
ZIP: 94710
COMPUTER READABLE FORM: disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/494,907
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Connor, Margaret A
REGISTRATION NUMBER: 30043
REFERENCE/DOCKET NUMBER: 0009.95
TELECOMMUNICATION INFORMATION:
TELEPHONE: (510) 559-6067
TELEFAX: (510) 559-5777
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 418 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-494-907-18

Query Match 45.9%; Score 39; DB 2; Length 418;

Best Local Similarity 54.5%; Pred. No. 1.3e+02;
Matches 6; Conservative 2; Mismatches 3; Indels 0; Gaps 0;
Qy 2 EFHLVFGNCEG 12
Db 88 KFFKIFGCEG 98

RESULT 13
PCT-US96-10986-18
Sequence 18, Application PC/TUS9610986
GENERAL INFORMATION:
TITLE OF INVENTION: Sequences for Production of
TITLE OF INVENTION: 2,4-Diacetylphloroglucinol and Methods
NUMBER OF SEQUENCES: 20
CORRESPONDENCE ADDRESS:
ADDRESSEE: Stephan A. Pendorf, DOMINIK & STEIN
STREET: 600 N. West Shore Boulevard, Suite 1000
CITY: Tampa
STATE: FL
COUNTRY: USA
ZIP: 33609
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/10986
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Pendorf, Stephan A.
REGISTRATION NUMBER: 32865
REFERENCE/DOCKET NUMBER: A700.320
TELECOMMUNICATION INFORMATION:
TELEPHONE: (813) 289-2966
TELEFAX: (813) 289-2967
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 418 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US96-10986-18

Query Match 45.9%; Score 39; DB 5; Length 418;
Best Local Similarity 54.5%; Pred. No. 1.3e+02;
Matches 6; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy 2 EFHLVFGNCEG 12
Db 88 KFFKIFGCEG 98

RESULT 14
US-08-858-207A-396
Sequence 396, Application US/08858207A
Patent No. 6348328
GENERAL INFORMATION:
APPLICANT: Black, Michael
APPLICANT: Hodgson, John
APPLICANT: Knowles, David
APPLICANT: Nicholas, Richard
APPLICANT: Stodola, Robert
TITLE OF INVENTION: No. 6348328e1 Compounds
NUMBER OF SEQUENCES: 552
CORRESPONDENCE ADDRESS:
ADDRESSEE: SmithKline Beecham Corporation
STREET: 709 Swedeland Road
CITY: King of Prussia
STATE: PA
COUNTRY: USA

ZIP: 19406-0939
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/858,207A
FILING DATE: 09-MAY-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/017670
FILING DATE: 14-MAY-1996
ATTORNEY/AGENT INFORMATION:
NAME: Gimmi, Edward R.
REGISTRATION NUMBER: 38,891
REFERENCE/DOCKET NUMBER: P50475
TELECOMMUNICATION INFORMATION:
TELEPHONE: 610-270-4478
TELEFAX: 610-270-5090
TELEX:
INFORMATION FOR SEQ ID NO: 396:
SEQUENCE CHARACTERISTICS:
LENGTH: 91 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: No. 6348328e
US-08-858-207A-396

Query Match 44.7%; Score 38; DB 4; Length 91;
Best Local Similarity 77.8%; Pred. No. 36;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 6 VFGNCEGVK 14
|||:|:
DB 70 VFGNCEILK 78

RESULT 15
US-09-328-352-6684
; Sequence 6684, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; FILE REFERENCE: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: GTC99-03PA
; CURRENT APPLICATION NUMBER: US/09/328,352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 6684
; LENGTH: 212
; TYPE: PRT
; ORGANISM: Acinetobacter baumannii
US-09-328-352-6684

Query Match 44.7%; Score 38; DB 4; Length 212;
Best Local Similarity 55.6%; Pred. No. 89;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 3 FHLVFGNCE 11
:|:|:
DB 106 YHLIINCE 114

Search completed: April 19, 2004, 12:38:21
Job time : 15.6939 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:05 / Search time 68.3163 Seconds
(without alignments)
60.529 Million cell updates/sec

Title: US-09-308-027A-16

Perfect score: 85

Sequence: 1 PEPHLVFGNCEGVKI 15

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits: satisfying chosen parameters: 1124875

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep:*
- 2: /cgn2_6/ptodata/2/pubpaa/PTCT_NEW_PUB.pep:*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
- 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep:*
- 5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep:*
- 6: /cgn2_6/ptodata/2/pubpaa/PTCTUS_PUBCOMB.pep:*
- 7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep:*
- 8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
- 9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep:*
- 10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep:*
- 11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep:*
- 12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep:*
- 13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep:*
- 14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
- 15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep:*
- 16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
- 17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*
- 18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Query | Score | Match | Length | ID | Description |
|------------|-------|-------|-------|--------|----------------------|-------------------|
| 1 | 85 | 100.0 | 15 | 14 | US-10-354-240-114 | Sequence 114, App |
| 2 | 85 | 100.0 | 514 | 10 | US-09-847-208-69 | Sequence 69, Appl |
| 3 | 61 | 71.8 | 15 | 14 | US-10-354-240-113 | Sequence 113, App |
| 4 | 57 | 67.1 | 492 | 12 | US-10-424-599-284649 | Sequence 284649, |
| 5 | 55 | 64.7 | 15 | 14 | US-10-354-240-115 | Sequence 115, App |
| 6 | 44 | 51.8 | 314 | 12 | US-10-425-114-43341 | Sequence 43341, A |
| 7 | 44 | 51.8 | 393 | 12 | US-10-425-114-48708 | Sequence 48708, A |
| 8 | 44 | 51.8 | 539 | 12 | US-10-424-599-176466 | Sequence 176466, |
| 9 | 43 | 50.6 | 531 | 12 | US-10-425-114-45931 | Sequence 45931, A |
| 10 | 43 | 50.6 | 631 | 12 | US-10-424-599-213820 | Sequence 213820, |
| 11 | 43 | 50.6 | 698 | 12 | US-10-425-114-50101 | Sequence 50101, A |
| 12 | 43 | 50.6 | 812 | 12 | US-10-424-599-247742 | Sequence 247742, |
| 13 | 42 | 49.4 | 50 | 10 | US-09-899-495-62 | Sequence 62, Appl |
| 14 | 42 | 49.4 | 72 | 12 | US-10-424-599-247259 | Sequence 247259, |
| 15 | 42 | 49.4 | 358 | 12 | US-10-425-114-69575 | Sequence 69575, A |

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|----|------|------|------|----|----------------------|-------------------|
| 16 | 42 | 49.4 | 496 | 12 | US-10-425-114-66151 | Sequence 66151, A |
| 17 | 42 | 49.4 | 573 | 12 | US-10-425-114-43413 | Sequence 43413, A |
| 18 | 41.5 | 48.8 | 42 | 12 | US-10-424-599-261743 | Sequence 261743, |
| 19 | 41 | 48.2 | 88 | 9 | US-09-925-299-949 | Sequence 949, App |
| 20 | 41 | 48.2 | 88 | 10 | US-09-925-299-949 | Sequence 949, App |
| 21 | 41 | 48.2 | 88 | 14 | US-10-106-598-5763 | Sequence 5763, Ap |
| 22 | 41 | 48.2 | 127 | 12 | US-10-276-774-2081 | Sequence 2081, Ap |
| 23 | 41 | 48.2 | 470 | 12 | US-10-332-447-11 | Sequence 11, Appl |
| 24 | 41 | 48.2 | 778 | 15 | US-10-342-844-72 | Sequence 72, Appl |
| 25 | 41 | 48.2 | 829 | 9 | US-09-764-367A-7 | Sequence 7, Appl |
| 26 | 41 | 48.2 | 838 | 10 | US-09-978-303-2 | Sequence 2, Appl |
| 27 | 41 | 48.2 | 838 | 14 | US-10-137-316-3 | Sequence 3, Appl |
| 28 | 41 | 48.2 | 838 | 15 | US-10-342-844-38 | Sequence 38, Appl |
| 29 | 41 | 48.2 | 838 | 15 | US-10-342-844-40 | Sequence 40, Appl |
| 30 | 41 | 48.2 | 839 | 9 | US-09-824-258-2 | Sequence 2, Appl |
| 31 | 41 | 48.2 | 839 | 9 | US-09-824-258-4 | Sequence 4, Appl |
| 32 | 41 | 48.2 | 839 | 9 | US-09-824-258-8 | Sequence 8, Appl |
| 33 | 41 | 48.2 | 839 | 10 | US-09-978-303-34 | Sequence 34, Appl |
| 34 | 41 | 48.2 | 839 | 14 | US-10-128-853-2 | Sequence 2, Appl |
| 35 | 41 | 48.2 | 839 | 14 | US-10-000-823-5 | Sequence 5, Appl |
| 36 | 41 | 48.2 | 839 | 15 | US-10-342-844-42 | Sequence 42, Appl |
| 37 | 41 | 48.2 | 839 | 15 | US-10-342-844-48 | Sequence 48, Appl |
| 38 | 41 | 48.2 | 839 | 15 | US-10-342-844-50 | Sequence 50, Appl |
| 39 | 41 | 48.2 | 839 | 15 | US-10-342-844-74 | Sequence 74, Appl |
| 40 | 41 | 48.2 | 839 | 15 | US-10-342-844-82 | Sequence 82, Appl |
| 41 | 41 | 48.2 | 873 | 12 | US-10-425-114-65968 | Sequence 65968, A |
| 42 | 41 | 48.2 | 1115 | 14 | US-10-260-715-6 | Sequence 6, Appl |
| 43 | 41 | 48.2 | 1151 | 14 | US-10-260-715-4 | Sequence 4, Appl |
| 44 | 40.5 | 47.6 | 83 | 12 | US-10-282-122A-45386 | Sequence 45386, A |
| 45 | 40.5 | 47.6 | 689 | 12 | US-10-282-122A-46993 | Sequence 46993, A |

ALIGNMENTS

RESULT 1

US-10-354-240-114
; Sequence 114, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Daijiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 114
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 31
US-10-354-240-114

Query Match 100.0%; Score 85; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.2e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PEPHLVFGNCEGVKI 15

Db 1 PEPHLVFGNCEGVKI 15

RESULT 4
US-10-424-599-284649
: Sequence 284649, Application US/10424599


```
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 43341
; LENGTH: 314
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3067-033-B6_FLI.pep
US-10-425-114-43341

Query Match      51.8%; Score 44; DB 12; Length 314;
Best Local Similarity 58.3%; Pred. No. 29;
Matches 7; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY      4 HLVFGNCEGVKI 15
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DB      74 HLKFDNCGVMV 85

RESULT 7
US-10-425-114-48708
; Sequence 48708, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 48708
; LENGTH: 393
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: 700725705_FLI.pep
US-10-425-114-48708

Query Match      51.8%; Score 44; DB 12; Length 393;
Best Local Similarity 46.7%; Pred. No. 36;
Matches 7; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY      1 PEFHLVFGNCEGVKI 15
      |||||:|:|:|:
DB      151 PCHLKFDSCNGVMV 165

RESULT 8
US-10-424-599-176466
; Sequence 176466, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
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; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 176466
; LENGTH: 539
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1) (539)
; OTHER INFORMATION: unsure at all xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_130367C.1.pep
US-10-424-599-176466

Query Match      51.8%; Score 44; DB 12; Length 539;
Best Local Similarity 46.7%; Pred. No. 50;
Matches 7; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY      1 PEFHLVFGNCEGVKI 15
      |||||:|:|:|:
DB      297 PCHLKFDSCNGVMV 311

RESULT 9
US-10-425-114-45931
; Sequence 45931, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 45931
; LENGTH: 531
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: 700790454_FLI.pep
US-10-425-114-45931

Query Match      50.6%; Score 43; DB 12; Length 531;
Best Local Similarity 53.8%; Pred. No. 74;
Matches 7; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY      2 EPHLVFGNCEGVK 14
      |||||:|:|:|:
DB      71 QFSLGNCRAAK 83

RESULT 10
US-10-424-599-213820
; Sequence 213820, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
```

```

; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 213820
; LENGTH: 631
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(631)
; OTHER INFORMATION: unsure at all Xaa locations
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 247742

Query Match      50.6%; Score 43; DB 12; Length 631;
Best Local Similarity 58.3%; Pred. No. 98;
Matches 7; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY      2 PFHLVFGNCEGVK 14
      :|:|:|:|:|
Db      171 QFSLLLGNCEAAK 183

RESULT 11
US-10-425-114-50101
; Sequence 50101, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingsong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 50101
; LENGTH: 698
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: 700557225_FLI.pep
US-10-425-114-50101

Query Match      50.6%; Score 43; DB 12; Length 698;
Best Local Similarity 58.3%; Pred. No. 98;
Matches 7; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY      1 PFHLVFGNCEG 12
      :|:|:|:|:|
Db      101 PQFHSFLFNGCG 112

RESULT 12
US-10-424-599-247742
; Sequence 247742, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J
; APPLICANT: Kovalic, David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 247742

Query Match      50.6%; Score 43; DB 12; Length 812;
Best Local Similarity 58.3%; Pred. No. 11e+02;
Matches 7; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY      1 PFHLVFGNCEG 12
      :|:|:|:|:|
Db      215 PQFHSFLFNGCG 226

RESULT 13
US-09-899-495-62
; Sequence 62, Application US/09899495
; Publication No. US2003008060A1
; GENERAL INFORMATION:
; APPLICANT: Benjamin, Christopher W.
; APPLICANT: Roberts, Steven L.
; APPLICANT: Karnovsky, Alla M.
; APPLICANT: Ruble, Cara L.
; TITLE OF INVENTION: Human Ion Channels
; FILE REFERENCE: 00188U1
; CURRENT APPLICATION NUMBER: US/09/899,495
; CURRENT FILING DATE: 2001-07-05
; PRIOR FILING DATE: 2000-07-05
; PRIOR APPLICATION NUMBER: 60/215,815
; PRIOR FILING DATE: 2000-07-06
; PRIOR APPLICATION NUMBER: 60/216,481
; PRIOR FILING DATE: 2000-07-06
; PRIOR APPLICATION NUMBER: 60/216,479
; PRIOR FILING DATE: 2000-07-06
; PRIOR APPLICATION NUMBER: 60/216,482
; PRIOR FILING DATE: 2000-07-06
; PRIOR APPLICATION NUMBER: 60/217,096
; NUMBER OF SEQ ID NOS: 125
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 62
; LENGTH: 50
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-899-495-62

Query Match      49.4%; Score 42; DB 10; Length 50;
Best Local Similarity 70.0%; Pred. No. 9.2;
Matches 7; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      1 PFHLVFGNCG 10
      :|:|:|:|:|
Db      27 PEPHEVLGTC 36

RESULT 14
US-10-424-599-247259
; Sequence 247259, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J
; APPLICANT: Kovalic, David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 247259

```

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; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 247259
; LENGTH: 72
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_65304C.1.pep
US-10-424-599-247259

Query Match          49.4%; Score 42; DB 12; Length 72;
Best Local Similarity 66.7%; Pred. No. 13;
Matches 8; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      3 FHLVFGNCEGVK 14
      ||| |||
DB      49 FHLVFGNCEGVK 60

RESULT 15
US-10-425-114-69575
; Sequence 69575, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 69575
; LENGTH: 358
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: UC-ZMFLB73080G10_FLI.pep
US-10-425-114-69575

Query Match          49.4%; Score 42; DB 12; Length 358;
Best Local Similarity 58.3%; Pred. No. 72;
Matches 7; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY      4 HLVFGNCEGVK 15
      ||| |||
DB      115 HLKFDSCGVMV 126

Search completed: April 19, 2004, 11:29:29
Job time : 68.3163 secs
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OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:39 ; Search time 14.6939 Seconds
(without alignments)
52.702 Million cell updates/sec

Title: US-09-308-027A-15

Perfect score: 87
Sequence: 1 PASWKNRNLWQFAK 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/ptodata/2/iaa/5A COMB pep.*
2: /cgn2_6/ptodata/2/iaa/5B COMB pep.*
3: /cgn2_6/ptodata/2/iaa/6A COMB pep.*
4: /cgn2_6/ptodata/2/iaa/6B COMB pep.*
5: /cgn2_6/ptodata/2/iaa/PCRTUS COMB pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles1 pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|----------------------|
| 1 | 87 | 100.0 | 128 | 3 | US-08-467-023-187 |
| 2 | 87 | 100.0 | 514 | 3 | US-08-467-023-134 |
| 3 | 47 | 54.0 | 178 | 4 | US-09-489-039A-10994 |
| 4 | 44 | 50.6 | 205 | 4 | US-09-252-991A-16946 |
| 5 | 43 | 49.4 | 333 | 4 | US-09-543-681A-4411 |
| 6 | 43 | 49.4 | 376 | 4 | US-09-252-991A-26270 |
| 7 | 43 | 49.4 | 423 | 1 | US-07-649-591B-3 |
| 8 | 43 | 49.4 | 423 | 1 | US-08-277-540-3 |
| 9 | 43 | 49.4 | 423 | 1 | US-08-430-787A-3 |
| 10 | 43 | 49.4 | 423 | 2 | US-08-869-057-2 |
| 11 | 43 | 49.4 | 423 | 4 | US-09-813-133A-4 |
| 12 | 42 | 48.3 | 459 | 3 | US-09-097-889-22 |
| 13 | 42 | 48.3 | 459 | 3 | US-09-058-079-22 |
| 14 | 41 | 47.1 | 758 | 4 | US-09-134-001C-4588 |
| 15 | 39 | 44.8 | 67 | 4 | US-09-107-532A-5736 |
| 16 | 39 | 44.8 | 271 | 4 | US-09-198-452A-58 |
| 17 | 39 | 44.8 | 357 | 1 | US-08-356-405-2 |
| 18 | 39 | 44.8 | 357 | 1 | US-08-356-405-9 |
| 19 | 39 | 44.8 | 357 | 2 | US-08-031-538-4 |
| 20 | 39 | 44.8 | 415 | 4 | US-09-489-039A-13315 |
| 21 | 39 | 44.8 | 418 | 4 | US-09-489-039A-13585 |
| 22 | 39 | 44.8 | 563 | 3 | US-09-360-197-12 |
| 23 | 39 | 44.8 | 837 | 4 | US-09-252-991A-30713 |
| 24 | 38.5 | 44.3 | 179 | 4 | US-09-690-454-135 |
| 25 | 38.5 | 44.3 | 638 | 4 | US-10-164-595-73 |
| 26 | 38.5 | 44.3 | 645 | 4 | US-10-164-595-40 |
| 27 | 38 | 43.7 | 106 | 4 | US-09-252-991A-24846 |

28 38 43.7 268 3 US-08-965-056-40 Sequence 40, Appl
29 38 43.7 372 4 US-09-973-963-4 Sequence 4, Appl
30 38 43.7 449 4 US-09-252-991A-17261 Sequence 17261, A
31 38 43.7 510 2 US-08-300-584-4 Sequence 4, Appl
32 38 43.7 510 3 US-08-476-123-4 Sequence 4, Appl
33 38 43.7 520 4 US-09-252-991A-17058 Sequence 17058, A
34 38 43.7 629 4 US-09-221-013A-2 Sequence 2, Appl
35 38 43.7 1032 3 US-09-115-954-8 Sequence 8, Appl
36 38 43.7 1044 3 US-09-115-954-2 Sequence 2, Appl
37 38 43.7 1085 4 US-09-734-674-4 Sequence 4, Appl
38 37.5 43.1 271 4 US-09-328-352-5566 Sequence 5566, AP
39 37 42.5 15 1 US-08-460-874A-26 Sequence 26, Appl
40 37 42.5 15 2 US-08-388-883B-26 Sequence 26, Appl
41 37 42.5 15 3 US-08-462-211A-26 Sequence 22, Appl
42 37 42.5 17 1 US-08-460-874A-22 Sequence 22, Appl
43 37 42.5 17 2 US-08-388-883B-22 Sequence 22, Appl
44 37 42.5 17 3 US-08-462-211A-22 Sequence 22, Appl
45 37 42.5 20 1 US-08-460-874A-21 Sequence 21, Appl

ALIGNMENTS

RESULT 1
US-08-467-023-187
; Sequence 187, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuc, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 187:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 128 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal

US-08-467-023-187

Query Match 100.0%; Score 87; DB 3; Length 128;
Best Local Similarity 100.0%; Pred. No. 1.5e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 PASWKNRNLWLOFAK 15
| | | | | | | | | | | | | | | | | | | | | |
Db 95 PASWKNRNLWLOFAK 109

RESULT 2

US-08-467-023-134
; Sequence 134, Application US/08467023
; Patent No. 6090386

; GENERAL INFORMATION:

; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.

; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen

; NUMBER OF SEQUENCES: 261

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.

; STREET: 610 Lincoln St

; CITY: Waltham

; STATE: MA

; COUNTRY: USA

; ZIP: 02154

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/467,023

; FILING DATE: June 6, 1995

; CLASSIFICATION: 424

; PRIOR APPLICATION NUMBER: 08/350,225

; FILING DATE: December 6, 1994

; ATTORNEY/AGENT INFORMATION:

; NAME: Jane E. Remillard

; REGISTRATION NUMBER: 38,872

; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (617) 227-7400

; TELEFAX: (617) 227-5941

; INFORMATION FOR SEQ ID NO: 134:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 514 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-08-467-023-134

Query Match 100.0%; Score 87; DB 3; Length 514;
Best Local Similarity 100.0%; Pred. No. 6.8e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 PASWKNRNLWLOFAK 15
| | | | | | | | | | | | | | | | | | | | | |
Db 130 PASWKNRNLWLOFAK 144

RESULT 3

US-09-489-039A-10994

; Sequence 10994, Application US/09489039A

; Patent No. 6610836

; GENERAL INFORMATION:

; APPLICANT: Gary Breton et. al

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS

; FILE REFERENCE: 2709.2004001

; CURRENT APPLICATION NUMBER: US/09/489,039A

; CURRENT FILING DATE: 2000-01-27

; PRIOR APPLICATION NUMBER: US 60/117,747

; PRIOR FILING DATE: 1999-01-29

; NUMBER OF SEQ ID NOS: 14342

; SEQ ID NO 10994

; LENGTH: 178

; TYPE: PRT

; ORGANISM: Klebsiella pneumoniae

US-09-489-039A-10994

Query Match 54.0%; Score 47; DB 4; Length 178;

Best Local Similarity 45.5%; Pred. No. 4.1;

Matches 10; Conservative 1; Mismatches 3; Indels 8; Gaps 1;

QY 1 PASWKNR-----IWLOFA 14

| | | | | | | | | | | | | | | | | | | | | |

Db 13 PASWNGRTSATARSAPQFA 34

RESULT 4

US-09-252-991A-16946

; Sequence 16946, Application US/09252991A

; Patent No. 6551795

; GENERAL INFORMATION:

; APPLICANT: Marc J. Rubenfield et al.

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

; FILE REFERENCE: 107196.136

; CURRENT APPLICATION NUMBER: US/09/252,991A

; CURRENT FILING DATE: 1999-02-18

; PRIOR APPLICATION NUMBER: US 60/074,788

; PRIOR FILING DATE: 1998-02-18

; PRIOR APPLICATION NUMBER: US 60/094,190

; PRIOR FILING DATE: 1998-07-27

; NUMBER OF SEQ ID NOS: 33142

; SEQ ID NO 16946

; LENGTH: 205

; TYPE: PRT

; ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-16946

Query Match 50.6%; Score 44; DB 4; Length 205;

Best Local Similarity 38.5%; Pred. No. 14;

Matches 5; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

QY 1 PASWKNRNLWLOF 13

| | | | | | | | | | | | | | | | | | | | | |

Db 112 PSAPNERTTWRW 124

RESULT 5

US-09-543-681A-4411

; Sequence 4411, Application US/09543681A

; Patent No. 6605709

; GENERAL INFORMATION:

; APPLICANT: GARY BRETON

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILI
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS

; FILE REFERENCE: 2709.1002-001

; CURRENT APPLICATION NUMBER: US/09/543,681A

; CURRENT FILING DATE: 2000-04-05

; PRIOR APPLICATION NUMBER: US 60/128,706

; PRIOR FILING DATE: 1999-04-09

; NUMBER OF SEQ ID NOS: 8344

; SEQ ID NO 4411

LENGTH: 333
TYPE: PRT
ORGANISM: Proteus mirabilis
US-09-543-681A-4411

Query Match 49.4%; Score 43; DB 4; Length 333;
Best Local Similarity 54.5%; Pred. No. 35;
Matches 6; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 2 ASWKNRRLQ 12
Db 270 AIWQDKIWL 280

RESULT 6

US-09-252-991A-26270
Sequence 26270, Application US/09252991A

Patent No. 6551795

GENERAL INFORMATION:

APPLICANT: Marc J. Rubenfield et al.

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

FILE REFERENCE: 107196.136

CURRENT APPLICATION NUMBER: US/09/252,991A

CURRENT FILING DATE: 1999-02-18

PRIOR APPLICATION NUMBER: US 60/074,788

PRIOR FILING DATE: 1998-02-18

PRIOR APPLICATION NUMBER: US 60/094,190

PRIOR FILING DATE: 1998-07-27

NUMBER OF SEQ ID NOS: 33142

SEQ ID NO 26270

LENGTH: 376

TYPE: PRT

ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-26270

Query Match 49.4%; Score 43; DB 4; Length 376;

Best Local Similarity 46.7%; Pred. No. 40;

Matches 7; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

Qy 1 PASHKRRRLQPAK 15

Db 323 PSLRRRRLQQLAR 337

RESULT 7

US-07-649-591B-3

Sequence 3, Application US/07649591B

Patent No. 5206161

GENERAL INFORMATION:

APPLICANT: Dennis Drayna and Daniel Eaton

TITLE OF INVENTION: No. 5206161el Plasma Carboxypeptidase

NUMBER OF SEQUENCES: 8

CORRESPONDENCE ADDRESS:

ADDRESSEE: Genentech, Inc.

STREET: 460 Point San Bruno Blvd

CITY: South San Francisco

STATE: California

COUNTRY: USA

ZIP: 94080

COMPUTER READABLE FORM:

MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: patin (Genentech)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/07/649,591B

FILING DATE: 19910201

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER:

FILING DATE:

ATTORNEY/AGENT INFORMATION:

Query Match

Best Local Similarity 49.4%; Score 43; DB 1; Length 423;

Filing Date: 75.0%; Pred. No. 45;

NAME: Hasak, Janet E.
REGISTRATION NUMBER: 28,616
REFERENCE/DOCKET NUMBER: 689
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/266-1896
TELEFAX: 415/952-9881
TELEX: 910/371-7168

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 423 amino acids

TYPE: AMINO ACID

TOPOLOGY: linear

US-07-649-591B-3

Query Match

Best Local Similarity 49.4%; Score 43; DB 1; Length 423;

Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 3 SWKNNRIW 10

Db 231 SWKNNRMW 238

RESULT 8

US-08-277-540-3

Sequence 3, Application US/08277540

Patent No. 5474901

GENERAL INFORMATION:

APPLICANT: Drayna, Dennis T., Eaton, Dan L.

TITLE OF INVENTION: No. 547901el Plasma Carboxypeptidase

NUMBER OF SEQUENCES: 8

CORRESPONDENCE ADDRESS:

ADDRESSEE: Genentech, Inc.

STREET: 460 Point San Bruno Blvd

CITY: South San Francisco

STATE: California

COUNTRY: USA

ZIP: 94080

COMPUTER READABLE FORM:

MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: patin (Genentech)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/277,540

FILING DATE: 19-JUL-1994

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/167727

FILING DATE: 15-DEC-1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/959944

FILING DATE: 14-OCT-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/649591

FILING DATE: 01-FEB-91

ATTORNEY/AGENT INFORMATION:

NAME: Hasak, Janet E.

REGISTRATION NUMBER: 28,616

REFERENCE/DOCKET NUMBER: 689D1C1D1

TELECOMMUNICATION INFORMATION:

TELEPHONE: 415/225-1896

TELEFAX: 415/952-9881

TELEX: 910/371-7168

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 423 amino acids

TYPE: amino acid

TOPOLOGY: linear

US-08-277-540-3

Query Match

Best Local Similarity 49.4%; Score 43; DB 1; Length 423;

Filing Date: 75.0%; Pred. No. 45;

Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 3 SWKNNRIW 10
||| |||:
Db 231 SWKKRNMW 238

RESULT 9
US-08-430-787A-3
; Sequence 3, Application US/08430787A
; Patent No. 593674
; GENERAL INFORMATION:
; APPLICANT: Drayna, Dennis T., Eaton, Dan L.
; TITLE OF INVENTION: NO. 593674el Plasma Carboxypeptidase
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genentech, Inc.
; STREET: 460 Point San Bruno Blvd
; CITY: South San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94080
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: patin (Genentech)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/430,787A
; FILING DATE: 27-APR-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/277,540
; FILING DATE: 19-JUL-1994
; APPLICATION NUMBER: 08/167727
; FILING DATE: 15-DEC-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/959944
; FILING DATE: 14-OCT-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/649591
; FILING DATE: 01-FEB-91
; ATTORNEY/AGENT INFORMATION:
; NAME: Haak, Janet E.
; REGISTRATION NUMBER: 28,616
; REFERENCE/DOCKET NUMBER: 689D1C1D1
; TELEPHONE: 415/225-1896
; TELEFAX: 415/952-9881
; TELEX: 910/371-7168
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 423 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
US-08-430-787A-3

Query Match 49.4%; Score 43; DB 1; Length 423;
Best Local Similarity 75.0%; Pred. No. 45;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 3 SWKNNRIW 10
||| |||:
Db 231 SWKKRNMW 238

RESULT 10
US-08-869-057-2
; Sequence 2, Application US/08869057
; Patent No. 598562
; GENERAL INFORMATION:
; APPLICANT: Morser, Michael J
; ADDRESSEE: Nagashima, Mariko

; TITLE OF INVENTION: Method of Detecting Thrombotic Disease
; TITLE OF INVENTION: Risk
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Berlex Biosciences Legal Department
; STREET: 15049 San Pablo Avenue
; CITY: Richmond
; STATE: California
; COUNTRY: USA
; ZIP: 94804-0099
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/869,057
; FILING DATE: 03-JUN-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Washtien, Wendy L
; REGISTRATION NUMBER: 36,301
; REFERENCE/DOCKET NUMBER: 51509AUSM1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 510-262-5411
; TELEFAX: 510-262-7095
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 423 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE: Plasma
; TISSUE TYPE:
; FEATURE:
; NAME/KEY: Peptide
; LOCATION: 23..401
US-08-869-057-2

Query Match 49.4%; Score 43; DB 2; Length 423;
Best Local Similarity 75.0%; Pred. No. 45;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 3 SWKNNRIW 10
||| |||:
Db 231 SWKKRNMW 238

RESULT 11
US-09-813-133A-4
; Sequence 4, Application US/09813133A
; Patent No. 6455294
; GENERAL INFORMATION:
; APPLICANT: Gan, Weiniu et al
; TITLE OF INVENTION: ISOLATED HUMAN PROTEASE PROTEINS,
; FILE REFERENCE: NUCLEIC ACID MOLECULES ENCODING HUMAN PROTEASE PROTEINS, AND
; TITLE OF INVENTION: USES THEREOF
; FILE REFERENCE: C1001173
; CURRENT APPLICATION NUMBER: US/09/813,133A
; CURRENT FILING DATE: 2001-06-06
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 423
; TYPE: PRT
; ORGANISM: Human
US-09-813-133A-4

Query Match 49.4%; Score 43; DB 4; Length 423;
Best Local Similarity 75.0%; Pred. No. 45;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 3 SWKNNRIW 10
||| :|||
Db 231 SWKNNRW 238

RESULT 12

US-09-097-889-22
; Sequence 22, Application US/09097889
; Patent No. 6218117
; GENERAL INFORMATION:
; APPLICANT: Herznstadt, Corrina
; APPLICANT: Ghosh, Soumitra S.
; APPLICANT: Davis, Robert E.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR IDENTIFYING
; TITLE OF INVENTION: AGENTS THAT QUANTITATIVELY ALTER DETECTABLE
; TITLE OF INVENTION: EXTRAMITOCHONDRIAL DNA: MITOCHONDRIAL DNA RATIOS
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104

COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/097,889
; FILING DATE: 15-JUN-1998
; CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
; NAME: Rosenman Ph.D., Stephen J.
; REGISTRATION NUMBER: 43,058
; REFERENCE/DOCKET NUMBER: 660088.417
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 459 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear

US-09-097-889-22

Query Match 48.3%; Score 42; DB 3; Length 459;
Best Local Similarity 54.5%; Pred. No. 71;
Matches 6; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 3 SWKNNRIW 13
||| :|||
Db 189 SWNNLMW 199

RESULT 13

US-09-098-079-22
; Sequence 22, Application US/09098079
; Patent No. 6489095
; GENERAL INFORMATION:
; APPLICANT: Herznstadt, Corrina
; APPLICANT: Ghosh, Soumitra S.
; APPLICANT: Cleverger, William
; APPLICANT: Faby, Robin F.
; APPLICANT: Davis, Robert E.
; TITLE OF INVENTION: DIAGNOSTIC METHOD BASED ON QUANTIFICATION OF
; TITLE OF INVENTION: EXTRAMITOCHONDRIAL DNA
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue

CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104
COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/098,079
; FILING DATE: 15-JUN-1998
; CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
; NAME: Rosenman Ph.D., Stephen J.
; REGISTRATION NUMBER: 43,058
; REFERENCE/DOCKET NUMBER: 660088.416
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 459 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear

US-09-098-079-22

Query Match 48.3%; Score 42; DB 4; Length 459;
Best Local Similarity 54.5%; Pred. No. 71;
Matches 6; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 3 SWKNNRIW 13
||| :|||
Db 189 SWNNLMW 199

RESULT 14

US-09-134-001C-4588
; Sequence 4588, Application US/09134001C
; Patent No. 6380370
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
; TITLE OF INVENTION: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: GTC-007
; CURRENT APPLICATION NUMBER: US/09/134,001C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/064,964
; PRIOR FILING DATE: 1997-11-08
; PRIOR APPLICATION NUMBER: US 60/055,779
; PRIOR FILING DATE: 1997-08-14
; NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 4588
; LENGTH: 758
; TYPE: PRT
; ORGANISM: Staphylococcus epidermidis
US-09-134-001C-4588

Query Match 47.1%; Score 41; DB 4; Length 758;
Best Local Similarity 87.5%; Pred. No. 1.8e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 ASWKNRI 9
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Db 444 ADWKNRI 451

RESULT 15

US-09-107-532A-5736
; Sequence 5736, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:

APPLICANT: Lynn A Doucette-Stamm and David Bush
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 7310
CORRESPONDENCE ADDRESS:
ADDRESSEE: GENOME THERAPEUTICS CORPORATION
STREET: 100 Beaver Street
CITY: Waltham
STATE: Massachusetts
COUNTRY: USA
ZIP: 02354
COMPUTER READABLE FORM:
MEDIUM TYPE: CD-ROM ISO9660
COMPUTER: PC
OPERATING SYSTEM: <Unknown>
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/107,532A
FILING DATE: 30-Jun-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/085,598
FILING DATE: 14 May 1998
APPLICATION NUMBER: 60/051571
FILING DATE: July 2, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Ariniello, Pamela Deneke
REGISTRATION NUMBER: 40,489
REFERENCE/DOCKET NUMBER: GTC-012
TELECOMMUNICATION INFORMATION:
TELEPHONE: (781)893-5007
TELEFAX: (781)893-8277
INFORMATION FOR SEQ ID NO: 5736:
SEQUENCE CHARACTERISTICS:
LENGTH: 67 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES
ORIGINAL SOURCE:
ORGANISM: Enterococcus faecium
FEATURE:
NAME/KEY: misc feature
LOCATION: (B) LOCATION 1...67
SEQUENCE DESCRIPTION: SEQ ID NO: 5736:

US-09-107-532A-5736
Query Match 44.8%; Score 39; DB 4; Length 67;
Best Local Similarity 50.0%; Pred. No. 25;
Matches 6; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 PASKKNRIWLO 12
DB 1 PRSQWNTIYLE 12

Search completed: April 19, 2004, 12:38:20
Job time : 14.6939 secs

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OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:05 ; Search time 68.3163 Seconds
(without alignments)
60.529 Million cell updates/sec

Title: US-09-308-027A-15
Perfect score: 87
Sequence: 1 PASWKNRINWLOFAK 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

- Database : Published Applications AA.*
- 1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
 - 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
 - 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
 - 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
 - 5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
 - 6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep.*
 - 7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
 - 8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
 - 9: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep.*
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 - 11: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep.*
 - 12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
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 - 14: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep.*
 - 15: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep.*
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 - 18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Query Match | Length | DB ID | Description |
|------------|-------------|--------|-------|----------------------|
| 1 | 87 | 100.0 | 15 | US-10-354-240-99 |
| 2 | 87 | 100.0 | 14 | Sequence 99, Appl |
| 3 | 72 | 82.8 | 105 | Sequence 69, Appl |
| 4 | 72 | 82.8 | 134 | US-10-354-240-2 |
| 5 | 63 | 72.4 | 15 | US-10-354-240-3 |
| 6 | 56 | 64.4 | 15 | US-10-354-240-98 |
| 7 | 52 | 59.8 | 456 | US-10-354-240-100 |
| 8 | 44 | 50.6 | 100 | US-10-369-493-2208 |
| 9 | 44 | 50.6 | 12 | Sequence 2208, Ap |
| 10 | 43 | 49.4 | 12 | US-10-424-599-254077 |
| 11 | 43 | 49.4 | 211 | Sequence 254077, A |
| 12 | 43 | 49.4 | 12 | US-10-282-122A-78311 |
| 13 | 43 | 49.4 | 333 | Sequence 467, App |
| 14 | 43 | 49.4 | 354 | Sequence 467, App |
| 15 | 43 | 49.4 | 423 | Sequence 3, Appl |
| 16 | 43 | 49.4 | 423 | US-10-115-479-66 |
| 17 | 43 | 49.4 | 423 | US-10-115-479-66 |
| 18 | 43 | 49.4 | 423 | US-10-212-877-4 |
| 19 | 43 | 49.4 | 423 | US-10-379-836-2 |

| | | | | | | |
|----|----|------|-----|----|----------------------|-------------------|
| 16 | 43 | 49.4 | 423 | 15 | US-10-379-836-17 | Sequence 17, Appl |
| 17 | 43 | 49.4 | 428 | 15 | US-10-115-479-68 | Sequence 68, Appl |
| 18 | 43 | 49.4 | 428 | 15 | US-10-115-479-70 | Sequence 70, Appl |
| 19 | 42 | 48.3 | 102 | 12 | US-10-424-599-195836 | Sequence 195836, |
| 20 | 42 | 48.3 | 165 | 12 | US-10-424-599-284690 | Sequence 284690, |
| 21 | 42 | 48.3 | 261 | 15 | US-10-334-143-51 | Sequence 51, Appl |
| 22 | 42 | 48.3 | 313 | 12 | US-10-282-122A-68835 | Sequence 68835, A |
| 23 | 42 | 48.3 | 408 | 12 | US-10-425-114-53135 | Sequence 53135, A |
| 24 | 42 | 48.3 | 459 | 9 | US-09-098-079-22 | Sequence 22, Appl |
| 25 | 42 | 48.3 | 459 | 15 | US-10-428-487-36 | Sequence 36, Appl |
| 26 | 41 | 47.1 | 59 | 12 | US-10-424-599-213200 | Sequence 213200, |
| 27 | 41 | 47.1 | 65 | 11 | US-09-864-408A-2390 | Sequence 2390, Ap |
| 28 | 41 | 47.1 | 139 | 15 | US-10-264-049-4289 | Sequence 4289, Ap |
| 29 | 41 | 47.1 | 194 | 12 | US-10-424-599-215133 | Sequence 215133, |
| 30 | 41 | 47.1 | 199 | 15 | US-10-108-260A-3208 | Sequence 3208, Ap |
| 31 | 41 | 47.1 | 211 | 12 | US-10-424-599-214553 | Sequence 214553, |
| 32 | 41 | 47.1 | 220 | 12 | US-10-424-599-183009 | Sequence 183009, |
| 33 | 41 | 47.1 | 369 | 12 | US-10-424-599-238680 | Sequence 238680, |
| 34 | 41 | 47.1 | 415 | 12 | US-10-282-122A-53250 | Sequence 53250, A |
| 35 | 41 | 47.1 | 458 | 9 | US-09-965-529-2 | Sequence 2, Appli |
| 36 | 41 | 47.1 | 458 | 10 | US-09-969-680A-2 | Sequence 2, Appli |
| 37 | 41 | 47.1 | 458 | 12 | US-10-112-944-401 | Sequence 401, App |
| 38 | 41 | 47.1 | 458 | 15 | US-10-108-260A-3319 | Sequence 3319, Ap |
| 39 | 41 | 47.1 | 459 | 15 | US-10-190-115-24 | Sequence 24, Appl |
| 40 | 41 | 47.1 | 459 | 15 | US-10-369-072-24 | Sequence 24, Appl |
| 41 | 41 | 47.1 | 478 | 12 | US-10-147-493-138 | Sequence 138, App |
| 42 | 41 | 47.1 | 478 | 12 | US-10-145-127-138 | Sequence 138, App |
| 43 | 41 | 47.1 | 478 | 12 | US-10-160-503-138 | Sequence 138, App |
| 44 | 41 | 47.1 | 478 | 12 | US-10-257-174-27 | Sequence 27, Appl |
| 45 | 41 | 47.1 | 478 | 12 | US-10-143-118-138 | Sequence 138, App |

ALIGNMENTS

RESULT 1

US-10-354-240-99
; Sequence 99, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JEP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 99
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 16
US-10-354-240-99

Query Match 100.0%; Score 87; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 3.3e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 PASWKNRINWLOFAK 15

DB 1 PASWKNRINWLOFAK 15

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RESULT 2
US-09-847-208-69
; Sequence 69, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxton, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Baocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 69
; LENGTH: 514
; TYPE: PRT
; ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-69

Query Match      100.0%; Score 87; DB 10; Length 514;
Best Local Similarity 100.0%; Pred. No. 8.5e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 PASWKNRRIWLQFAK 15
Db      130 PASWKNRRIWLQFAK 144

RESULT 3
US-10-354-240-2
; Sequence 2, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; APPLICANT: Kume, Toshio
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JF97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
US-10-354-240-2

Query Match      82.8%; Score 72; DB 14; Length 105;
Best Local Similarity 100.0%; Pred. No. 0.0032;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      4 WKNRRIWLQFAK 15
Db      52 WKNRRIWLQFAK 63

RESULT 4
US-10-354-240-3
; Sequence 3, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; APPLICANT: Kume, Toshio
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JF97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 134
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
US-10-354-240-3

Query Match      82.8%; Score 72; DB 14; Length 134;
Best Local Similarity 100.0%; Pred. No. 0.004;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      4 WKNRRIWLQFAK 15
Db      52 WKNRRIWLQFAK 63

RESULT 5
US-10-354-240-98
; Sequence 98, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; APPLICANT: Kume, Toshio
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JF97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 98
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)-(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 15
US-10-354-240-98

Query Match      72.4%; Score 63; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.011;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 PASWKNRRIW 10
Db      6 PASWKNRRIW 15

RESULT 6
US-10-354-240-100
; Sequence 100, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
```

; APPLICANT: Kume, Akinozi
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwano, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; PRIOR FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 100
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cry12 peptide, Figure 2, Row 17
US-10-354-240-100

Query Match 64.4%; Score 56; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.12; Indels 0; Gaps 0;
Matches 10; Conservative 0; Mismatches 0

QY 6 NNRWLQFAK 15
|||||
Db 1 NNRWLQFAK 10

RESULT 7
US-10-369-493-2208
; Sequence 2208, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 2208
; LENGTH: 456
; TYPE: PRT
; ORGANISM: Schizosaccharomyces pombe
US-10-369-493-2208

Query Match 59.8%; Score 52; DB 15; Length 456;
Best Local Similarity 60.0%; Pred. No. 11;
Matches 9; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 1 PASWKNRNLQFAK 15
|||||
Db 178 PAAWKNCLVWLPAK 192

RESULT 8
US-10-424-599-254077
; Sequence 254077, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K

; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 254077
; LENGTH: 100
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_71455C.1.pep
US-10-424-599-254077

Query Match 50.6%; Score 44; DB 12; Length 100;
Best Local Similarity 50.0%; Pred. No. 41;
Matches 5; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 1 PASWKNRNLQ 10
|||||
Db 48 PGQWGNKRW 57

RESULT 9
US-10-282-122A-78311
; Sequence 78311, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms

; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 78311
; LENGTH: 444
; TYPE: PRT
; ORGANISM: Yersinia pestis

US-10-282-122A-78311

Query Match 50.6%; Score 44; DB 12; Length 444;
 Best Local Similarity 60.0%; Pred. No. 1.6e+02;
 Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 4 WKNNRWLQF 13
 Db 314 WRNRRWLLF 323

RESULT 10

US-09-925-302-467
 ; Sequence 467, Application US/09925302
 ; Patent No. US20020044941A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rosen et al.
 ; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
 ; FILE REFERENCE: PA104
 ; CURRENT APPLICATION NUMBER: US/09/925,302
 ; CURRENT FILING DATE: 2001-08-10
 ; PRIOR APPLICATION NUMBER: PCT/US00/05918
 ; PRIOR FILING DATE: 2000-03-08
 ; PRIOR APPLICATION NUMBER: 60/124,270
 ; PRIOR FILING DATE: 1999-03-12
 ; NUMBER OF SEQ ID NOS: 896
 ; SOFTWARE: Patent in Ver. 2.0
 ; SEQ ID NO 467
 ; LENGTH: 211
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-925-302-467

Query Match 49.4%; Score 43; DB 9; Length 211;
 Best Local Similarity 75.0%; Pred. No. 1.1e+02;
 Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 3 SWKNRW 10
 Db 19 SWKNRW 26

RESULT 11

US-09-925-302-467
 ; Sequence 467, Application US/09925302
 ; Patent No. US20030064072A9
 ; GENERAL INFORMATION:
 ; APPLICANT: Rosen et al.
 ; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
 ; FILE REFERENCE: PA104
 ; CURRENT APPLICATION NUMBER: US/09/925,302
 ; CURRENT FILING DATE: 2001-08-10
 ; PRIOR APPLICATION NUMBER: PCT/US00/05918
 ; PRIOR FILING DATE: 2000-03-08
 ; PRIOR APPLICATION NUMBER: 60/124,270
 ; PRIOR FILING DATE: 1999-03-12
 ; NUMBER OF SEQ ID NOS: 896
 ; SOFTWARE: Patent in Ver. 2.0
 ; SEQ ID NO 467
 ; LENGTH: 211
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-925-302-467

Query Match 49.4%; Score 43; DB 12; Length 211;
 Best Local Similarity 75.0%; Pred. No. 1.1e+02;
 Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 3 SWKNRW 10
 Db 19 SWKNRW 26

RESULT 12

US-10-010-084-3
 ; Sequence 3, Application US/10010084
 ; Publication No. US20030148412A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Adachi, Kiichi
 ; APPLICANT: DeZwaan, Todd M
 ; APPLICANT: Lo, Sze Chung C
 ; APPLICANT: Montenegro-Chamorro, Maria V
 ; APPLICANT: Frank, Sheryl A
 ; APPLICANT: Darveau, Blaise A
 ; APPLICANT: Mahanty, Sanjoy K
 ; APPLICANT: Heininger, Ryan W
 ; APPLICANT: Skalkchunes, Amy R
 ; APPLICANT: Pan, Huaqin
 ; APPLICANT: Tarpey, Rex
 ; APPLICANT: Shuster, Jeffrey R
 ; APPLICANT: Tanzer, Matthew M
 ; APPLICANT: Hamer, Lisbeth
 ; TITLE OF INVENTION: METHODS FOR THE IDENTIFICATION OF INHIBITORS OF HISTIDINOL-PHOSPHATASE
 ; FILE REFERENCE: 2130US
 ; CURRENT APPLICATION NUMBER: US/10/010,084
 ; CURRENT FILING DATE: 2001-12-06
 ; NUMBER OF SEQ ID NOS: 3
 ; SOFTWARE: Patent in version 3.1
 ; SEQ ID NO 3
 ; LENGTH: 333
 ; TYPE: PRT
 ; ORGANISM: Magnaporthe grisea
 US-10-010-084-3

Query Match 49.4%; Score 43; DB 14; Length 333;
 Best Local Similarity 50.0%; Pred. No. 1.7e+02;
 Matches 5; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 1 PASWKNRW 10
 Db 209 PSWSPNRW 218

RESULT 13

US-10-115-479-66
 ; Sequence 66, Application US/10115479
 ; Publication No. US20040006205A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Li, Li
 ; APPLICANT: Gerlach, Valerie L.
 ; APPLICANT: Liu, Xiaohong
 ; APPLICANT: Miller, Charles E.
 ; APPLICANT: Spytek, Kimberly A.
 ; APPLICANT: Zerhusen, Bryan D.
 ; APPLICANT: Pena, Carol E. A.
 ; APPLICANT: Shenoy, Sureeh G.
 ; APPLICANT: Zhong, Haibong
 ; APPLICANT: Smithson, Glendda
 ; APPLICANT: Casman, Stacie U.
 ; APPLICANT: Boldog, Ferenc L.
 ; APPLICANT: Voss, Edward
 ; APPLICANT: Vernet, Corine
 ; APPLICANT: MacDougall, John A.
 ; APPLICANT: Rastelli, Luca
 ; APPLICANT: Anderson, David W.
 ; APPLICANT: Zhong, Mei
 ; APPLICANT: Mezes, Peter S.
 ; APPLICANT: Furtak, Katarzyna
 ; APPLICANT: Pattarajan, Meera
 ; APPLICANT: Burgess, Catherine E.
 ; APPLICANT: Malyanker, Uriel M.
 ; APPLICANT: Shinkets, Richard A.
 ; APPLICANT: Taupier, Raymond J.
 ; APPLICANT: Edinger, Shlomit R.
 ; APPLICANT: Mazur, Ann

US-10-115-479-66
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-322 B (Cura 622 PT)
; CURRENT APPLICATION NUMBER: US/10/115,479
; CURRENT FILING DATE: 2002-11-18
; PRIOR APPLICATION NUMBER: 60/281,136
; PRIOR FILING DATE: 2001-04-03
; PRIOR APPLICATION NUMBER: 60/281,863
; PRIOR FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: 60/281,906
; PRIOR FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: 60/282,934
; PRIOR FILING DATE: 2001-04-10
; PRIOR APPLICATION NUMBER: 60/283,657
; PRIOR FILING DATE: 2001-04-13
; PRIOR APPLICATION NUMBER: 60/283,678
; PRIOR FILING DATE: 2001-04-13
; PRIOR APPLICATION NUMBER: 60/283,687
; PRIOR FILING DATE: 2001-04-13
; PRIOR APPLICATION NUMBER: 60/283,710
; PRIOR FILING DATE: 2001-04-13
; PRIOR APPLICATION NUMBER: 60/284,234
; PRIOR FILING DATE: 2001-04-17
; PRIOR APPLICATION NUMBER: 60/285,325
; PRIOR FILING DATE: 2001-04-19
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 198
; SEQ ID NO 66
; LENGTH: 354
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-115-479-66

Query Match 49.4%; Score 43; DB 15; Length 354;
Best Local Similarity 75.0%; Pred. No. 1.9e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 3 SWKNNRIW 10
||| ||:|
Db 236 SWKKNRMW 243

RESULT 14
US-10-212-877-4
; Sequence 4, Application US/10212877
; Publication No. US20030017574A1
; GENERAL INFORMATION:
; APPLICANT: GAN, Weiniu et al
; TITLE OF INVENTION: ISOLATED HUMAN PROTEASE PROTEINS, AND
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN PROTEASE PROTEINS, AND
; FILE REFERENCE: US/10/212,877
; CURRENT APPLICATION NUMBER: US/10/212,877
; CURRENT FILING DATE: 2002-08-07
; PRIOR APPLICATION NUMBER: 09/813,133
; PRIOR FILING DATE: 2001-03-21
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 423
; TYPE: PRT
; ORGANISM: Human
US-10-212-877-4

Query Match 49.4%; Score 43; DB 12; Length 423;
Best Local Similarity 75.0%; Pred. No. 2.2e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 3 SWKNNRIW 10
||| ||:|
Db 231 SWKKNRMW 238

RESULT 15

US-10-379-836-2
; Sequence 2, Application US/10379836
; Publication No. US20030215850A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: NOVEL NUCLEIC ACID MOLECULES AND POLYPEPTIDES ENCODING BABOON
; TITLE OF INVENTION: TAFI
; FILE REFERENCE: D0214NP
; CURRENT APPLICATION NUMBER: US/10/379,836
; CURRENT FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: U.S. 60/361,523
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 423
; TYPE: PRT
; ORGANISM: Papio hamadryas
US-10-379-836-2

Query Match 49.4%; Score 43; DB 15; Length 423;
Best Local Similarity 75.0%; Pred. No. 2.2e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 3 SWKNNRIW 10
||| ||:|
Db 231 SWKKNRMW 238

Search completed: April 19, 2004, 11:29:29
Job time : 68.3163 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:39 / Search time 14.6939 seconds
(without alignments)
52.702 Million cell updates/sec

Title: US-09-308-027A-13

Perfect score: 72

Sequence: 1 SMLLVPGSKKFVN 15

Scoring table: BLOSUM62

Gapop 10.0, Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA.*

1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep.*

2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep.*

3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep.*

4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep.*

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6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Query Match | Score | Length | DB ID | Description |
|------------|-------------|-------|--------|-------|----------------------|
| 1 | 72 | 100.0 | 128 | 3 | US-08-467-023-187 |
| 2 | 72 | 100.0 | 514 | 3 | US-08-467-023-134 |
| 3 | 40 | 55.6 | 391 | 4 | US-09-438-589-2 |
| 4 | 40 | 55.6 | 394 | 4 | US-09-198-452A-876 |
| 5 | 39 | 54.2 | 66 | 4 | US-09-134-001C-5385 |
| 6 | 38 | 52.8 | 111 | 1 | US-08-543-238-8 |
| 7 | 38 | 52.8 | 111 | 1 | US-08-420-526-8 |
| 8 | 37 | 51.4 | 220 | 4 | US-09-011-151-13 |
| 9 | 37 | 51.4 | 400 | 4 | US-09-390-234-19 |
| 10 | 37 | 51.4 | 400 | 4 | US-09-390-234-22 |
| 11 | 37 | 51.4 | 400 | 4 | US-09-603-311-19 |
| 12 | 37 | 51.4 | 400 | 4 | US-09-603-311-22 |
| 13 | 37 | 51.4 | 425 | 3 | US-09-109-204-31 |
| 14 | 37 | 51.4 | 425 | 4 | US-09-490-032-31 |
| 15 | 37 | 51.4 | 455 | 1 | US-08-476-008-3 |
| 16 | 37 | 51.4 | 455 | 1 | US-08-306-063-3 |
| 17 | 37 | 51.4 | 455 | 1 | US-08-833-485-3 |
| 18 | 37 | 51.4 | 455 | 3 | US-09-137-440-3 |
| 19 | 37 | 51.4 | 455 | 5 | PCT-US91-06148A-3 |
| 20 | 36.5 | 50.7 | 425 | 4 | US-08-288-339-4 |
| 21 | 36 | 50.0 | 137 | 4 | US-09-732-210-1267 |
| 22 | 36 | 50.0 | 138 | 4 | US-09-148-545-222 |
| 23 | 36 | 50.0 | 139 | 4 | US-09-148-545-160 |
| 24 | 36 | 50.0 | 893 | 4 | US-09-489-039A-14127 |
| 25 | 35 | 48.6 | 109 | 4 | US-08-858-207A-461 |
| 26 | 35 | 48.6 | 129 | 4 | US-09-732-210-1666 |
| 27 | 35 | 48.6 | 132 | 4 | US-09-732-210-1687 |

| | | | | | |
|----|------|------|------|---|----------------------|
| 28 | 35 | 48.6 | 134 | 4 | US-09-107-532A-7255 |
| 29 | 35 | 48.6 | 141 | 4 | US-09-621-976-3988 |
| 30 | 35 | 48.6 | 151 | 4 | US-09-732-210-1674 |
| 31 | 35 | 48.6 | 226 | 4 | US-09-694-084-1 |
| 32 | 35 | 48.6 | 540 | 3 | US-08-991-677-8 |
| 33 | 35 | 48.6 | 689 | 4 | US-09-252-991A-32669 |
| 34 | 34.5 | 47.9 | 2052 | 3 | US-09-045-201A-2 |
| 35 | 34.5 | 47.9 | 2052 | 4 | US-09-619-062-2 |
| 36 | 34 | 47.2 | 95 | 3 | US-08-946-329A-78 |
| 37 | 34 | 47.2 | 129 | 4 | US-09-732-210-1665 |
| 38 | 34 | 47.2 | 129 | 4 | US-09-732-210-1668 |
| 39 | 34 | 47.2 | 145 | 4 | US-09-732-210-579 |
| 40 | 34 | 47.2 | 155 | 4 | US-09-800-170-54 |
| 41 | 34 | 47.2 | 169 | 4 | US-09-144-428-15 |
| 42 | 34 | 47.2 | 198 | 4 | US-09-800-170-25 |
| 43 | 34 | 47.2 | 199 | 4 | US-09-800-170-28 |
| 44 | 34 | 47.2 | 213 | 4 | US-09-252-991A-18915 |
| 45 | 34 | 47.2 | 219 | 3 | US-08-834-776A-3 |

ALIGNMENTS

RESULT 1
US-08-467-023-187
; Sequence 187, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 281
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 187:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 128 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal

US-08-467-023-187

Query Match 100.0%; Score 72; DB 3; Length 128;
Best Local Similarity 100.0%; Pred. No. 7.5e-06; Indels 0; Gaps 0;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SAMLLVPGSKKFFV 15
| | | | | | | | | | | | | | | | | |
DB 55 SAMLLVPGSKKFFV 69

RESULT 2

US-08-467-023-134
Sequence 134, Application US/08467023
Patent No. 6090386

GENERAL INFORMATION:

APPLICANT: Griffith, Irwin J.;
APPLICANT: Bellock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D.;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.

TITLE OF INVENTION: Allergenic Proteins and Peptides From
TITLE OF INVENTION: Japanese Cedar Pollen

NUMBER OF SEQUENCES: 261

CORRESPONDENCE ADDRESS:

ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.

STREET: 610 Lincoln St

CITY: Waltham

STATE: MA

COUNTRY: USA

ZIP: 02154

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/467,023

FILING DATE: June 6, 1995

CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/350,225

FILING DATE: December 6, 1994

ATTORNEY/AGENT INFORMATION:

NAME: Jane E. Remillard

REGISTRATION NUMBER: 38,872

REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 227-7400

TELEFAX: (617) 227-5941

INFORMATION FOR SEQ ID NO: 134:

SEQUENCE CHARACTERISTICS:

LENGTH: 514 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-467-023-134

Query Match 100.0%; Score 72; DB 3; Length 514;
Best Local Similarity 100.0%; Pred. No. 3.6e-05; Indels 0; Gaps 0;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SAMLLVPGSKKFFV 15
| | | | | | | | | | | | | | | | | |
DB 90 SAMLLVPGSKKFFV 104

RESULT 3

US-09-428-589-2

Sequence 2, Application US/09428589

Patent No. 6403102

GENERAL INFORMATION:

APPLICANT: Mordin, Andrew

TITLE OF INVENTION: CHLAMYDIA ANTIGENS AND CORRESPONDING DNA FRAGMENTS AND

TITLE OF INVENTION: USES THEREOF

FILE REFERENCE: 19721-008

CURRENT APPLICATION NUMBER: US/09/428,589

CURRENT FILING DATE: 1999-10-27

EARLIER APPLICATION NUMBER: 60/106,071

EARLIER FILING DATE: 1998-10-29

EARLIER APPLICATION NUMBER: 60/133,202

EARLIER FILING DATE: 1999-05-07

NUMBER OF SEQ ID NOS: 4

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 2

LENGTH: 391

TYPE: PRT

ORGANISM: Chlamydia pneumoniae

US-09-428-589-2

Query Match 55.8%; Score 40; DB 4; Length 391;
Best Local Similarity 58.3%; Pred. No. 21;
Matches 7; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 3 MLLVPGSKKFFV 14

DB 243 LFALPGTKKFFV 254

RESULT 4

US-09-198-452A-876

Sequence 876, Application US/09198452A

Patent No. 6559294

GENERAL INFORMATION:

APPLICANT: Griffais, R.

TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
thereof and uses thereof, in particular for the diagnosis, prevention
and treatment of infection

FILE REFERENCE: 9710-003-999

CURRENT APPLICATION NUMBER: US/09/198,452A

CURRENT FILING DATE: 1998-11-24

NUMBER OF SEQ ID NOS: 6849

SEQ ID NO 876

LENGTH: 394

TYPE: PRT

ORGANISM: Chlamydia pneumoniae

US-09-198-452A-876

Query Match 55.8%; Score 40; DB 4; Length 394;
Best Local Similarity 58.3%; Pred. No. 21;
Matches 7; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 3 MLLVPGSKKFFV 14

DB 246 LFALPGTKKFFV 257

RESULT 5

US-09-134-001C-5385

Sequence 5385, Application US/09134001C

Patent No. 6380370

GENERAL INFORMATION:

APPLICANT: Lynn Doucette-Stamm et al

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: GTC-007

CURRENT APPLICATION NUMBER: US/09/134,001C

CURRENT FILING DATE: 1998-08-13

PRIOR APPLICATION NUMBER: US 60/064,964

PRIOR FILING DATE: 1997-11-08

PRIOR APPLICATION NUMBER: US 60/055,779

PRIOR FILING DATE: 1997-08-14


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; NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 5385
; LENGTH: 66
; TYPE: PRT
; ORGANISM: Staphylococcus epidermidis
US-09-134-001C-5385

Query Match      54.2%; Score 39; DB 4; Length 66;
Best Local Similarity 28.6%; Pred. No. 4.4;
Matches 4; Conservative 8; Mismatches 2; Indels 0; Gaps 0;

Qy      2 AMLLVPGSKKFFVN 15
Db      30 SLYLIPSTKRYIIN 43
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RESULT 6
US-08-543-238-8
; Sequence 8, Application US/08543238
; Patent No. 5607919
; GENERAL INFORMATION:
; APPLICANT: Bojsen, Kirsten
; APPLICANT: Kragh, Karsten M.
; APPLICANT: Mikkelsen, Klaus K.
; APPLICANT: Nielsen, Jørn D.
; TITLE OF INVENTION: Anti-Microbial Proteins
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sandoz Agro, Inc.
; STREET: 975 California Avenue
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/543/238
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Marcus-Wyner, Lynn
; REGISTRATION NUMBER: 34,869
; REFERENCE/DOCKET NUMBER: 137-1078/MA
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415/354-3588
; TELEFAX: 415/857-1125
; INFORMATION FOR SEQ ID NO: 8:
; LENGTH: 111 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-543-238-8

Query Match      52.8%; Score 38; DB 1; Length 111;
Best Local Similarity 70.0%; Pred. No. 12;
Matches 7; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy      1 SAMLLVPGSK 10
Db      15 SALLLLPGSR 24
      |||::|::|::|

RESULT 7
US-08-420-526-8
; Sequence 8, Application US/08420526
; Patent No. 5608151
; GENERAL INFORMATION:
; APPLICANT: Bojsen, Kirsten
```

```
; APPLICANT: Kragh, Karsten M.
; APPLICANT: Mikkelsen, Jørn D.
; APPLICANT: Nielsen, Klaus K.
; TITLE OF INVENTION: Anti-Microbial Proteins
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sandoz Agro, Inc.
; STREET: 975 California Avenue
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/420,526
; FILING DATE:
; CLASSIFICATION: 800
; ATTORNEY/AGENT INFORMATION:
; NAME: Marcus-Wyner, Lynn
; REGISTRATION NUMBER: 34,869
; REFERENCE/DOCKET NUMBER: 137-1078/MA
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415/354-3588
; TELEFAX: 415/857-1125
; INFORMATION FOR SEQ ID NO: 8:
; LENGTH: 111 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-420-526-8

Query Match      52.8%; Score 38; DB 1; Length 111;
Best Local Similarity 70.0%; Pred. No. 12;
Matches 7; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy      1 SAMLLVPGSK 10
Db      15 SALLLLPGSR 24
      |||::|::|::|

RESULT 8
US-09-011-151-13
; Sequence 13, Application US/09011151
; Patent No. 6380463
; GENERAL INFORMATION:
; APPLICANT: Jepsen, Ian
; TITLE OF INVENTION: DNA Constructs
; FILE REFERENCE: EPD 50059/UST
; CURRENT APPLICATION NUMBER: US/09/011,151
; CURRENT FILING DATE: 1998-01-29
; PRIOR APPLICATION NUMBER: PCT/GB96/01883
; PRIOR FILING DATE: 1996-08-02
; PRIOR APPLICATION NUMBER: GB 9515941.4
; PRIOR FILING DATE: 1995-08-03
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 13
; LENGTH: 220
; TYPE: PRT
; ORGANISM: Petunia hybrida
US-09-011-151-13

Query Match      51.4%; Score 37; DB 4; Length 220;
Best Local Similarity 57.1%; Pred. No. 39;
Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

Qy      2 AMLLVPGSKKFFVN 15
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Db 188 AALLVPGSDVTILN 201

RESULT 9

US-09-390-234-19
; Sequence 19, Application US/09390234
; Patent No. 6365390
; GENERAL INFORMATION:
; APPLICANT: Blum, David L.
; APPLICANT: Kataeva, Irina
; APPLICANT: Li, Xin-Liang
; APPLICANT: Ljungdahl, Lars G.
; TITLE OF INVENTION: Phenolic Acid Esterases, Coding Sequences and Methods
; FILE REFERENCE: 67-98
; CURRENT APPLICATION NUMBER: US/09/390,234
; CURRENT FILING DATE: 1999-09-03
; EARLIER APPLICATION NUMBER: US 60/099,136
; EARLIER FILING DATE: 1998-09-04
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 19
; LENGTH: 400
; TYPE: PRT
; ORGANISM: Escherichia coli
US-09-390-234-19

Query Match 51.4%; Score 37; DB 4; Length 400;
Best Local Similarity 77.8%; Pred. No. 76;
Matches 7; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SAMLVPGS 9

Db 134 SSMILVPGS 142

RESULT 10

US-09-390-234-22
; Sequence 22, Application US/09390234
; Patent No. 6365390
; GENERAL INFORMATION:
; APPLICANT: Blum, David L.
; APPLICANT: Kataeva, Irina
; APPLICANT: Li, Xin-Liang
; APPLICANT: Ljungdahl, Lars G.
; TITLE OF INVENTION: Phenolic Acid Esterases, Coding Sequences and Methods
; FILE REFERENCE: 67-98
; CURRENT APPLICATION NUMBER: US/09/390,234
; CURRENT FILING DATE: 1999-09-03
; EARLIER APPLICATION NUMBER: US 60/099,136
; EARLIER FILING DATE: 1998-09-04
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 22
; LENGTH: 400
; TYPE: PRT
; ORGANISM: Escherichia coli
US-09-390-234-22

Query Match 51.4%; Score 37; DB 4; Length 400;
Best Local Similarity 77.8%; Pred. No. 76;
Matches 7; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SAMLVPGS 9

Db 134 SSMILVPGS 142

RESULT 11

US-09-603-311-19
; Sequence 19, Application US/09603311
; Patent No. 6602700
; GENERAL INFORMATION:
; APPLICANT: Li, Xin-Liang

; APPLICANT: Ljungdahl, Lars G.
; APPLICANT: Azain, Michael J.
; APPLICANT: Davies, Edward T.
; APPLICANT: Shah, Ashit K.
; APPLICANT: Blum, David L.
; APPLICANT: Kataeva, Irina
; TITLE OF INVENTION: Phenolic Acid Esterases, Coding Sequences and Methods
; FILE REFERENCE: 67-98A
; CURRENT APPLICATION NUMBER: US/09/603,311
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: US 60/099,136
; PRIOR FILING DATE: 1998-09-04
; PRIOR APPLICATION NUMBER: 09/390,324
; PRIOR FILING DATE: 1999-09-03
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 19
; LENGTH: 400
; TYPE: PRT
; ORGANISM: Escherichia coli
US-09-603-311-19

Query Match 51.4%; Score 37; DB 4; Length 400;
Best Local Similarity 77.8%; Pred. No. 76;
Matches 7; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SAMLVPGS 9

Db 134 SSMILVPGS 142

RESULT 12

US-09-603-311-22
; Sequence 22, Application US/09603311
; Patent No. 6602700
; GENERAL INFORMATION:
; APPLICANT: Li, Xin-Liang
; APPLICANT: Ljungdahl, Lars G.
; APPLICANT: Azain, Michael J.
; APPLICANT: Davies, Edward T.
; APPLICANT: Shah, Ashit K.
; APPLICANT: Blum, David L.
; APPLICANT: Kataeva, Irina
; TITLE OF INVENTION: Phenolic Acid Esterases, Coding Sequences and Methods
; FILE REFERENCE: 67-98A
; CURRENT APPLICATION NUMBER: US/09/603,311
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: US 60/099,136
; PRIOR FILING DATE: 1998-09-04
; PRIOR APPLICATION NUMBER: 09/390,324
; PRIOR FILING DATE: 1999-09-03
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 22
; LENGTH: 400
; TYPE: PRT
; ORGANISM: Escherichia coli
US-09-603-311-22

Query Match 51.4%; Score 37; DB 4; Length 400;
Best Local Similarity 77.8%; Pred. No. 76;
Matches 7; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SAMLVPGS 9

Db 134 SSMILVPGS 142

RESULT 13

US-09-109-204-31
; Sequence 31, Application US/09109204
; Patent No. 6060250
; GENERAL INFORMATION:

APPLICANT: Lal, Preeti
APPLICANT: Bandman, Olga
APPLICANT: Hillman, Jennifer L.
APPLICANT: Guegler, Karl J.
APPLICANT: Gorgone, Gina A.
APPLICANT: Corley, Neil C.
APPLICANT: Patterson, Chandra
TITLE OF INVENTION: HUMAN TRANSFERASES
NUMBER OF SEQUENCES: 32
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/109,204
FILING DATE: HEREWITH
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Cerrone, Michael C
REGISTRATION NUMBER: 39,132
REFERENCE/DOCKET NUMBER: PF-0546 US
TELEPHONE: 650-855-0555
TELEFAX: 650-855-0572
TELEX:
INFORMATION FOR SEQ ID NO: 31:
SEQUENCE CHARACTERISTICS:
LENGTH: 425 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: GenBank
CLONE: GI 1050752
US-09-109-204-31

Query Match 51.4%; Score 37; DB 3; Length 425;
Best Local Similarity 61.5%; Pred. No. 82;
Matches 8; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 3 MLLVPGSKKFFVN 15
:||||: |||
Db 379 ILLVPGNSFFVDN 391

RESULT 14
US-09-490-032-31
; Sequence 31, Application US/09490032
; Patent No. 6471959
; GENERAL INFORMATION:
; APPLICANT: Lal, Preeti
; APPLICANT: Bandman, Olga
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Guegler, Karl J.
; APPLICANT: Gorgone, Gina A.
; APPLICANT: Corley, Neil C.
; APPLICANT: Patterson, Chandra
TITLE OF INVENTION: HUMAN TRANSFERASES
NUMBER OF SEQUENCES: 32
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive

CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/490,032
FILING DATE: 21-JAN-2000
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/109,204
FILING DATE: 30-JUNE-1998
ATTORNEY/AGENT INFORMATION:
NAME: Cerrone, Michael C
REGISTRATION NUMBER: 39,132
REFERENCE/DOCKET NUMBER: PF-0546 US
TELEPHONE: 650-855-0555
TELEFAX: 650-855-0572
TELEX:
INFORMATION FOR SEQ ID NO: 31:
SEQUENCE CHARACTERISTICS:
LENGTH: 425 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: GenBank
CLONE: GI 1050752
US-09-490-032-31

Query Match 51.4%; Score 37; DB 4; Length 425;
Best Local Similarity 61.5%; Pred. No. 82;
Matches 8; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 3 MLLVPGSKKFFVN 15
:||||: |||
Db 379 ILLVPGNSFFVDN 391

RESULT 15
US-08-476-008-3
; Sequence 3, Application US/08476008
; Patent No. 5627061
; GENERAL INFORMATION:
; APPLICANT: Barry, Gerard F.
; APPLICANT: Kishore, Ganesh M.
; APPLICANT: Padgett, Stephen R.
; APPLICANT: Stallings, William C.
TITLE OF INVENTION: Glyophosphate Tolerant
TITLE OF INVENTION: 5-Enolpyruvylshikimate-3-Phosphate Synthases
NUMBER OF SEQUENCES: 69
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dennis R. Hoerner, Jr., Monsanto Co. BB4F
STREET: 700 Chesterfield Village Parkway
CITY: St. Louis
STATE: Missouri
COUNTRY: USA
ZIP: 63198
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/476,008
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/306,063
FILING DATE: 13-SEP-1994
APPLICATION NUMBER: US 07/749,611
FILING DATE: 28-AUG-1991
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/576,537
FILING DATE: 31-AUG-1990
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Hoeftner Jr., Dennis R.
REGISTRATION NUMBER: 30,914
REFERENCE/DOCKET NUMBER: 38-21(10660)A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (314)537-6099
TELEFAX: (314)537-6047
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 455 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-476-008-3

Query Match 51.4%; Score 37; DB 1; Length 455;
Best Local Similarity 57.1%; Pred. No. 88;
Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 2 AMLLVFGSKKVVN 15
DB 254 AALLVFGSDVTILN 267

Search completed: April 19, 2004, 12:38:19
Job time : 15.6939 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:39 ; Search time 14.6939 Seconds
(without alignments)
52.702 Million cell updates/sec

Title: US-09-308-027A-14
Perfect score: 81
Sequence: 1 VDGIIAAYQNPASWK 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA.*
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2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep.*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/PTCUS_COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Query | Score | Match | Length | DB | ID | Description |
|------------|-------|-------|-------|--------|---------------------|----|-------------------|
| 1 | 81 | 100.0 | 128 | 3 | US-08-467-023-187 | | Sequence 187, App |
| 2 | 81 | 100.0 | 514 | 3 | US-08-467-023-134 | | Sequence 134, App |
| 3 | 44 | 54.3 | 13 | 3 | US-08-467-023-183 | | Sequence 183, App |
| 4 | 44 | 54.3 | 13 | 3 | US-08-467-023-185 | | Sequence 185, App |
| 5 | 42 | 51.9 | 306 | 2 | US-08-824-707-2 | | Sequence 2, Appl |
| 6 | 41 | 50.6 | 387 | 4 | US-09-107-532A-5675 | | Sequence 5675, Ap |
| 7 | 40 | 49.4 | 187 | 4 | US-09-543-681A-5218 | | Sequence 5218, Ap |
| 8 | 40 | 49.4 | 302 | 3 | US-08-965-600-3 | | Sequence 3, Appl |
| 9 | 40 | 49.4 | 302 | 4 | US-09-489-506-3 | | Sequence 3, Appl |
| 10 | 40 | 49.4 | 668 | 4 | US-09-363-708-4 | | Sequence 4, Appl |
| 11 | 40 | 49.4 | 668 | 4 | US-09-083-587-4 | | Sequence 4, Appl |
| 12 | 39 | 48.1 | 124 | 4 | US-09-328-352-5487 | | Sequence 5487, Ap |
| 13 | 39 | 48.1 | 561 | 2 | US-08-679-635A-7 | | Sequence 7, Appl |
| 14 | 39 | 48.1 | 561 | 4 | US-09-419-163-7 | | Sequence 7, Appl |
| 15 | 39 | 48.1 | 3461 | 4 | US-09-324-220-2 | | Sequence 2, Appl |
| 16 | 38 | 46.9 | 113 | 4 | US-09-621-976-7197 | | Sequence 7197, Ap |
| 17 | 38 | 46.9 | 187 | 2 | US-08-177-109A-62 | | Sequence 62, Appl |
| 18 | 38 | 46.9 | 187 | 2 | US-08-687-706-62 | | Sequence 62, Appl |
| 19 | 38 | 46.9 | 187 | 5 | PCT-US96-01314-60 | | Sequence 60, Appl |
| 20 | 38 | 46.9 | 226 | 4 | US-09-540-236-3787 | | Sequence 3787, Ap |
| 21 | 38 | 46.9 | 238 | 4 | US-08-771-212A-4 | | Sequence 4, Appl |
| 22 | 38 | 46.9 | 244 | 4 | US-09-107-532A-5393 | | Sequence 5393, Ap |
| 23 | 38 | 46.9 | 263 | 3 | US-09-159-106-2 | | Sequence 2, Appl |
| 24 | 38 | 46.9 | 282 | 4 | US-09-328-352-4791 | | Sequence 4791, Ap |
| 25 | 38 | 46.9 | 303 | 3 | US-09-159-106-13 | | Sequence 13, Appl |
| 26 | 38 | 46.9 | 306 | 3 | US-08-842-306B-4 | | Sequence 4, Appl |
| 27 | 38 | 46.9 | 306 | 3 | US-08-838-973B-4 | | Sequence 4, Appl |

| | | | | | | |
|----|----|------|------|---|-------------------|-------------------|
| 28 | 38 | 46.9 | 328 | 1 | US-08-414-926A-9 | Sequence 9, Appl |
| 29 | 38 | 46.9 | 328 | 2 | US-08-926-942-9 | Sequence 9, Appl |
| 30 | 38 | 46.9 | 328 | 3 | US-09-253-682-9 | Sequence 9, Appl |
| 31 | 38 | 46.9 | 328 | 3 | US-09-527-657-9 | Sequence 9, Appl |
| 32 | 38 | 46.9 | 328 | 4 | US-09-892-100-9 | Sequence 9, Appl |
| 33 | 38 | 46.9 | 435 | 3 | US-09-159-106-11 | Sequence 11, Appl |
| 34 | 38 | 46.9 | 476 | 4 | US-09-675-018B-13 | Sequence 13, Appl |
| 35 | 38 | 46.9 | 476 | 4 | US-09-675-018B-14 | Sequence 14, Appl |
| 36 | 38 | 46.9 | 567 | 4 | US-09-711-164-374 | Sequence 374, App |
| 37 | 38 | 46.9 | 775 | 4 | US-09-662-831-2 | Sequence 2, Appl |
| 38 | 38 | 46.9 | 1163 | 1 | US-08-173-497-4 | Sequence 4, Appl |
| 39 | 38 | 46.9 | 1163 | 1 | US-08-286-889-4 | Sequence 4, Appl |
| 40 | 38 | 46.9 | 1163 | 1 | US-08-485-618-4 | Sequence 4, Appl |
| 41 | 38 | 46.9 | 1163 | 1 | US-08-362-652-4 | Sequence 4, Appl |
| 42 | 38 | 46.9 | 1163 | 2 | US-08-605-672-4 | Sequence 4, Appl |
| 43 | 38 | 46.9 | 1163 | 2 | US-08-482-293A-4 | Sequence 4, Appl |
| 44 | 38 | 46.9 | 1163 | 2 | US-08-943-363-4 | Sequence 4, Appl |
| 45 | 38 | 46.9 | 1163 | 2 | US-08-476-062A-44 | Sequence 44, Appl |

ALIGNMENTS

RESULT 1
US-08-467-023-187
; Sequence 187, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 187:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 128 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal

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US-08-467-023-187
Query Match      100.0%; Score 81; DB 3; Length 128;
Best Local Similarity 100.0%; Pred. No. 4.4e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VDGIIAAYONPASWK 15
Db 85 VDGIIAAYONPASWK 99

RESULT 2
US-08-467-023-134
; Sequence 134, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.;
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 134:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 514 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-467-023-134

Query Match      100.0%; Score 81; DB 3; Length 514;
Best Local Similarity 100.0%; Pred. No. 2.3e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VDGIIAAYONPASWK 15
Db 120 VDGIIAAYONPASWK 134

RESULT 3
US-08-467-023-183
; Sequence 183, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.;
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 183:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 13 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-193

Query Match      54.3%; Score 44; DB 3; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VDGIIAAYQ 9
Db 5 VDGIIAAYQ 13

RESULT 4
US-08-467-023-185
; Sequence 185, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.;
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 185:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 13 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-193
```

;; TITLE OF INVENTION: Allergenic Proteins And Peptides From
;; TITLE OF INVENTION: Japanese Cedar Pollen
;; NUMBER OF SEQUENCES: 261
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
;; STREET: 610 Lincoln St
;; CITY: Waltham
;; STATE: MA
;; COUNTRY: USA
;; ZIP: 02154
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: Patent In Release #1.0, Version #1.25
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/467,023
;; FILING DATE: June 6, 1995
;; CLASSIFICATION: 424
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 08/350,225
;; FILING DATE: December 6, 1994
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Jane E. Remillard
;; REGISTRATION NUMBER: 38,872
;; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IM1-028CPD2)
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (617) 227-7400
;; TELEFAX: (617) 227-5941
;; INFORMATION FOR SEQ ID NO: 185:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 13 amino acids
;; TYPE: amino acid
;; TOPOLOGY: linear
;; MOLECULE TYPE: peptide
;; FRAGMENT TYPE: internal
;; US-08-467-023-185

Query Match 54.3%; Score 44; DB 3; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VDGIIAAQYQ 9
Db 5 VDGIIAAQYQ 13

RESULT 5
US-08-824-707-2
; Sequence 2, Application US/08824707
; Patent No. 5919688
; GENERAL INFORMATION:
; APPLICANT: Ferrer, Pau
; APPLICANT: Diers, Ivan
; APPLICANT: Hedegaard, Lisbeth
; APPLICANT: Halkier, Torben
; APPLICANT: Asenjo, Juan
; APPLICANT: Sarva, Denitris
; TITLE OF INVENTION: No. 5919688e1 enzyme with beta-1,3-glucanase activity
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 5919688o No. 5919688disk of No. 5919688th America, Inc.
; STREET: 405 Lexington Avenue, Suite 6400
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10174-6401
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:

;; APPLICATION NUMBER: US/08/824,707
;; FILING DATE: 14-April-1997
;; CLASSIFICATION: 435
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Gregg, Valeta A.
;; REGISTRATION NUMBER: 35,127
;; REFERENCE/DOCKET NUMBER: 4290.204-US
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 212-867-0123
;; TELEFAX: 212-878-9655
;; INFORMATION FOR SEQ ID NO: 2:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 306 amino acids
;; TYPE: amino acid
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
;; US-08-824-707-2

Query Match 51.9%; Score 42; DB 2; Length 306;
Best Local Similarity 46.2%; Pred. No. 13;
Matches 6; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

Qy 2 DGI1AAYQNPASW 14
Db 209 NGINGTYQHPPQGW 221

RESULT 6
US-09-107-532A-5675
; Sequence 5675, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 7310
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,532A
; FILING DATE: 30-Jun-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/085,598
; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 60/051571
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Ariniello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781) 893-5007
; TELEFAX: (781) 893-8277
; INFORMATION FOR SEQ ID NO: 5675:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 387 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
; FEATURE:

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; NAME/KEY: misc feature
; LOCATION: (B) LOCATION 1...387
; SEQUENCE DESCRIPTION: SEQ ID NO: 5675:
US-09-107-532A-5675

Query Match      50.6%; Score 41; DB 4; Length 387;
Best Local Similarity 50.0%; Pred. No. 26;
Matches 7; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy 1 VDGIIAAYQNPAW 14
Db 178 MDGKIATYTNQSKW 191

RESULT 7
US-09-543-681A-5218
; Sequence 5218, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
; APPLICANT: GARY BRETON
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.1002-001
; CURRENT APPLICATION NUMBER: US/09/543.681A
; CURRENT FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 60/128,706
; PRIOR FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 5218
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Proteus mirabilis
US-09-543-681A-5218

Query Match      49.4%; Score 40; DB 4; Length 187;
Best Local Similarity 60.0%; Pred. No. 16;
Matches 9; Conservative 1; Mismatches 3; Indels 2; Gaps 1;

Qy 3 GIIAAYQNP--ASWK 15
Db 142 GIIAAYSDPKAEWK 156

RESULT 8
US-09-965-600-3
; Sequence 3, Application US/08965600
; Patent No. 607688
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Lal, Preeti
; APPLICANT: Corley, Neil C.
; APPLICANT: Shah, Purvi
; TITLE OF INVENTION: NEW TRANSDUCIN BETA-1 SUBUNIT
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/965,600
; FILING DATE: Herewith
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
```

```
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0416 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 302 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 1079671
US-08-965-600-3

Query Match      49.4%; Score 40; DB 3; Length 302;
Best Local Similarity 53.3%; Pred. No. 29;
Matches 8; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy 1 VDGIIAAYQNPAWK 15
Db 123 VDGRIAVWDNFSCK 137

RESULT 9
US-09-489-506-3
; Sequence 3, Application US/09489506
; Patent No. 6465619
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Lal, Preeti
; APPLICANT: Corley, Neil C.
; APPLICANT: Shah, Purvi
; TITLE OF INVENTION: NEW TRANSDUCIN BETA-1 SUBUNIT
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/489,506
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/965,600
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0416 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 302 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
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LIBRARY: GenBank
CLONE: 1079671
US-09-489-506-3

Query Match 49.4%; Score 40; DB 4; Length 302;
Best Local Similarity 53.3%; Pred. No. 29;
Matches 8; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 VDGIIAAYQNPASWK 15
DB 123 VDGIIAAYQNPASWK 137

RESULT 10

US-09-363-708-4

; Sequence 4, Application US/09363708
; Patent No. 6399747

; GENERAL INFORMATION:

; APPLICANT: Schmandt, et al.

; TITLE OF INVENTION: NOVEL SHC BINDING PROTEIN

; NUMBER OF SEQUENCES: 12

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 233 South Wacker Drive/6300 Sears Tower

; CITY: Chicago

; STATE: Illinois

; COUNTRY: United States of America

; ZIP: 60606-6402

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/363,708

; FILING DATE:

; CLASSIFICATION:

; ATTORNEY/AGENT INFORMATION:

; NAME: Clough, David W.

; REGISTRATION NUMBER: 36,107

; REFERENCE/DOCKET NUMBER: 01017/34451

; TELEPHONE: (312) 474-6300

; TELEFAX: (312) 474-0448

; INFORMATION FOR SEQ ID NO: 4:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 668 amino acids

; TYPE: amino acid

; STRANDEDNESS: not relevant

; TOPOLOGY: linear

; MOLECULE TYPE: peptide

; DESCRIPTION: /desc = "mouse PAL peptide"

US-09-363-708-4

Query Match 49.4%; Score 40; DB 4; Length 668;
Best Local Similarity 63.6%; Pred. No. 75;
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 5 IAAAYQNPASWK 15
DB 23 LAAEKEPASWK 33

RESULT 11

US-09-083-587-4

; Sequence 4, Application US/09083587

; Patent No. 6492138

; GENERAL INFORMATION:

; APPLICANT: Schmandt, et al.

; TITLE OF INVENTION: NOVEL SHC BINDING PROTEIN

; NUMBER OF SEQUENCES: 12

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun

STREET: 233 South Wacker Drive/6300 Sears Tower
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/083,587
FILING DATE:

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: Clough, David W.

REGISTRATION NUMBER: 36,107

REFERENCE/DOCKET NUMBER: 01017/34451

TELECOMMUNICATION INFORMATION:

TELEPHONE: (312) 474-6300

TELEFAX: (312) 474-0448

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 668 amino acids

TYPE: amino acid

STRANDEDNESS: not relevant

TOPOLOGY: linear

MOLECULE TYPE: peptide

DESCRIPTION: /desc = "mouse PAL peptide"

US-09-083-587-4

Query Match 49.4%; Score 40; DB 4; Length 668;
Best Local Similarity 63.6%; Pred. No. 75;
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 5 IAAAYQNPASWK 15
DB 23 LAAEKEPASWK 33

RESULT 12

US-09-328-352-5497

; Sequence 5487, Application US/09328352

; Patent No. 6562958

; GENERAL INFORMATION:

; APPLICANT: Gary L. Breton et al.

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER

; FILE REFERENCE: GTC99-039A

; CURRENT APPLICATION NUMBER: US/09/328,352

; CURRENT FILING DATE: 1999-06-04

; NUMBER OF SEQ ID NOS: 8252

; SEQ ID NO 5487

; LENGTH: 124

; TYPE: PRT

; ORGANISM: Acinetobacter baumannii

US-09-328-352-5487

Query Match 48.1%; Score 39; DB 4; Length 124;
Best Local Similarity 46.7%; Pred. No. 15;
Matches 7; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 1 VDGIIAAYQNPASWK 15
DB 24 ISGFKAAAYQNEAAFR 38

RESULT 13

US-08-679-635A-7

; Sequence 7, Application US/08679635A

; Patent No. 5985643

; GENERAL INFORMATION:

; APPLICANT: Tomasz, Alexander

```
; APPLICANT: Delencastre, Herminia
; TITLE OF INVENTION: AUXILIARY GENES AND PROTEINS OF
; TITLE OF INVENTION: METHICILLIN RESISTANT BACTERIA AND ANTAGONISTS THEREOF
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: David A. Jackson, Esq.
; STREET: 411 Hackensack Ave, Continental Plaza, 4th
; STREET: Floor
; CITY: Hackensack
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07601
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/679,635A
; FILING DATE: 10-JUL-1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jackson Esq., David A.
; REGISTRATION NUMBER: 26,742
; REFERENCE/DOCKET NUMBER: 600-1-141
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 201-487-5800
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 561 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; US-08-679-635A-7

Query Match 48.1%; Score 39; DB 2; Length 561;
Best Local Similarity 54.5%; Pred. No. 91;
Matches 6; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 5 IAAVQNPASWK 15
DB 349 IALYETPTGWK 359

RESULT 14
US-09-419-163-7
; Sequence 7, Application US/09419163
; Patent No. 6391614
; GENERAL INFORMATION:
; APPLICANT: Tomasz, Alexander
; APPLICANT: Delencastre, Herminia
; TITLE OF INVENTION: AUXILIARY GENES AND PROTEINS OF
; TITLE OF INVENTION: METHICILLIN RESISTANT BACTERIA AND ANTAGONISTS THEREOF
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: David A. Jackson, Esq.
; STREET: 411 Hackensack Ave, Continental Plaza, 4th
; STREET: Floor
; CITY: Hackensack
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07601
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/419,163
; FILING DATE:
```

```
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/679,635
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Jackson Esq., David A.
; REGISTRATION NUMBER: 26,742
; REFERENCE/DOCKET NUMBER: 600-1-141
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 201-487-5800
; TELEFAX: 201-343-1684
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 561 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; US-09-419-163-7

Query Match 48.1%; Score 39; DB 4; Length 561;
Best Local Similarity 54.5%; Pred. No. 91;
Matches 6; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 5 IAAVQNPASWK 15
DB 349 IALYETPTGWK 359

RESULT 15
US-09-334-220-2
; Sequence 2, Application US/09334220
; Patent No. 6323177
; GENERAL INFORMATION:
; APPLICANT: St. Jude's Children's Research Hospital
; APPLICANT: Curran, Thomas
; APPLICANT: D'Arcangelo, Gabriella
; TITLE OF INVENTION: INTERACTION OF REELIN WITH VERY LOW
; TITLE OF INVENTION: DENSITY LIPOPROTEIN (VLDL) RECEPTOR FOR SCREENING AND
; TITLE OF INVENTION: THERAPIES
; FILE REFERENCE: 2427/0F704
; CURRENT APPLICATION NUMBER: US/09/334,220
; CURRENT FILING DATE: 1999-06-16
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 3461
; TYPE: PRT
; ORGANISM: Mus musculus
; US-09-334-220-2

Query Match 48.1%; Score 39; DB 4; Length 3461;
Best Local Similarity 41.7%; Pred. No. 8.2e+02;
Matches 5; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 4 IIAAYQNPASWK 15
DB 1070 IMSDFNPSSWE 1081

Search completed: April 19, 2004, 12:38:20
Job time : 15.6939 secs
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:05 ; Search time 68.3163 Seconds
(without alignments)
60.529 Million cell updates/sec

Title: US-09-308-027A-14

Perfect score: 81

Sequence: 1 VDGIIAAVQNPASWK 15

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:
1: /cgn2_6/ptodata/2/pubpa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/2/pubpa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/2/pubpa/US06_NEW_PUB.pep.*
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9: /cgn2_6/ptodata/2/pubpa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/2/pubpa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/2/pubpa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/2/pubpa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/2/pubpa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/2/pubpa/US10B_PUBCOMB.pep.*
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17: /cgn2_6/ptodata/2/pubpa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/2/pubpa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|----------------------|
| 1 | 81 | 100.0 | 15 | 14 | US-10-354-240-97 |
| 2 | 81 | 100.0 | 15 | 14 | Sequence 97, Appl |
| 3 | 81 | 100.0 | 15 | 14 | Sequence 160, Appl |
| 4 | 81 | 100.0 | 80 | 14 | US-10-354-240-1 |
| 5 | 81 | 100.0 | 105 | 14 | US-10-354-240-2 |
| 6 | 81 | 100.0 | 134 | 14 | US-10-354-240-3 |
| 7 | 57 | 70.4 | 15 | 14 | US-09-847-208-69 |
| 8 | 50 | 61.7 | 15 | 14 | US-10-354-240-98 |
| 9 | 48 | 59.3 | 567 | 14 | US-10-238-075-796 |
| 10 | 43 | 53.1 | 226 | 12 | US-10-282-122A-50277 |
| 11 | 43 | 53.1 | 565 | 15 | US-10-369-493-18803 |
| 12 | 40.5 | 50.0 | 544 | 15 | US-10-369-493-5873 |
| 13 | 40 | 49.4 | 43 | 12 | US-10-424-599-222397 |
| 14 | 40 | 49.4 | 65 | 12 | US-10-424-599-162641 |
| 15 | 40 | 49.4 | 158 | 14 | US-10-106-698-6717 |

| | | | | | | |
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| 15 | 40 | 49.4 | 228 | 12 | US-10-282-122A-61856 | Sequence 61856, A |
| 17 | 40 | 49.4 | 230 | 12 | US-10-282-122A-62576 | Sequence 62576, A |
| 18 | 40 | 49.4 | 230 | 12 | US-10-282-122A-64798 | Sequence 64798, A |
| 19 | 40 | 49.4 | 302 | 14 | US-10-237-381-3 | Sequence 3, Appl |
| 20 | 40 | 49.4 | 351 | 14 | US-10-284-740-22 | Sequence 22, Appl |
| 21 | 40 | 49.4 | 439 | 12 | US-10-282-122A-73023 | Sequence 73023, A |
| 22 | 40 | 49.4 | 472 | 15 | US-10-369-493-23432 | Sequence 23432, A |
| 23 | 40 | 49.4 | 668 | 14 | US-10-316-161-4 | Sequence 4, Appl |
| 24 | 40 | 49.4 | 6146 | 14 | US-10-156-761-10436 | Sequence 10436, A |
| 25 | 39.5 | 48.8 | 573 | 15 | US-10-369-493-5871 | Sequence 5871, Ap |
| 26 | 39.5 | 48.8 | 573 | 15 | US-10-369-493-5872 | Sequence 5872, Ap |
| 27 | 39 | 48.1 | 58 | 10 | US-09-867-550-644 | Sequence 4110, Ap |
| 28 | 39 | 48.1 | 74 | 12 | US-10-424-599-165200 | Sequence 165200, A |
| 29 | 39 | 48.1 | 78 | 12 | US-10-424-599-164821 | Sequence 164821, A |
| 30 | 39 | 48.1 | 124 | 12 | US-10-282-122A-44817 | Sequence 44817, A |
| 31 | 39 | 48.1 | 127 | 12 | US-10-282-122A-66003 | Sequence 66003, A |
| 32 | 39 | 48.1 | 143 | 9 | US-09-867-550-644 | Sequence 644, Ap |
| 33 | 39 | 48.1 | 149 | 15 | US-10-108-260A-4823 | Sequence 4823, Ap |
| 34 | 39 | 48.1 | 274 | 12 | US-10-424-599-244122 | Sequence 244122, A |
| 35 | 39 | 48.1 | 277 | 14 | US-10-156-761-13955 | Sequence 13955, A |
| 36 | 39 | 48.1 | 344 | 12 | US-10-187-975-32 | Sequence 32, Appl |
| 37 | 39 | 48.1 | 344 | 12 | US-10-187-975-34 | Sequence 34, Appl |
| 38 | 39 | 48.1 | 351 | 15 | US-10-108-260A-2994 | Sequence 2994, Ap |
| 39 | 39 | 48.1 | 351 | 15 | US-10-108-260A-3016 | Sequence 3016, Ap |
| 40 | 39 | 48.1 | 356 | 12 | US-10-282-122A-76660 | Sequence 76660, A |
| 41 | 39 | 48.1 | 360 | 14 | US-10-156-761-14691 | Sequence 14691, A |
| 42 | 39 | 48.1 | 387 | 15 | US-10-421-654-66 | Sequence 66, Appl |
| 43 | 39 | 48.1 | 451 | 12 | US-10-147-493-126 | Sequence 126, App |
| 44 | 39 | 48.1 | 451 | 12 | US-10-145-127-126 | Sequence 126, App |
| 45 | 39 | 48.1 | 451 | 12 | US-10-160-503-126 | Sequence 126, App |

ALIGNMENTS

RESULT 1

US-10-354-240-97
; Sequence 97, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sore, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 97
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 14
US-10-354-240-97

Query Match 100.0%; Score 81; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 6.7e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 VDGIIAAVQNPASWK 15
Db 1 VDGIIAAVQNPASWK 15

RESULT 2

US-10-354-240-160
; Sequence 160, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akimori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 160
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Figure 7, Row c
US-10-354-240-160

Query Match 100.0%; Score 81; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 6.7e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VDGIIAAYQNPAWK 15
Db 1 VDGIIAAYQNPAWK 15

RESULT 3

US-10-354-240-1
; Sequence 1, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akimori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 80
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
US-10-354-240-1

Query Match 100.0%; Score 81; DB 14; Length 80;
Best Local Similarity 100.0%; Pred. No. 3.8e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VDGIIAAYQNPAWK 15
Db 66 VDGIIAAYQNPAWK 80

RESULT 4

US-10-354-240-2
; Sequence 2, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akimori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
US-10-354-240-2

Query Match 100.0%; Score 81; DB 14; Length 105;
Best Local Similarity 100.0%; Pred. No. 5.1e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VDGIIAAYQNPAWK 15
Db 91 VDGIIAAYQNPAWK 105

RESULT 5

US-10-354-240-3
; Sequence 3, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akimori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 134
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
US-10-354-240-3

Query Match 100.0%; Score 81; DB 14; Length 134;
Best Local Similarity 100.0%; Pred. No. 6.6e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VDGIIAAYQNPAWK 15
Db 120 VDGIIAAYQNPAWK 134

RESULT 6

APPLICANT: Ohlsen, Kari
APPLICANT: Zyskind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
APPLICANT: Xu, H.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITRA.034A
CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
PRIOR FILING DATE: 2003-02-20
PRIOR FILING DATE: 2000-03-21
PRIOR FILING DATE: 2000-05-23
PRIOR FILING DATE: 2000-07-27
PRIOR FILING DATE: 2000-05-26
PRIOR FILING DATE: 2000-09-06
PRIOR FILING DATE: 2000-12-22
PRIOR FILING DATE: 2000-09-09
PRIOR FILING DATE: 2000-10-23
PRIOR FILING DATE: 2000-11-27
PRIOR FILING DATE: 2000-12-22
PRIOR FILING DATE: 2001-02-09
PRIOR FILING DATE: 2001-02-16
PRIOR FILING DATE: 2001-02-16
REMAINING Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 78614
SOFTWARE: PatentIn version 3.1
SEQ ID NO 50277
LENGTH: 226
TYPE: PRT
ORGANISM: Burkholderia mallei
US-10-282-122A-50277

Query Match 53.1%; Score 43; DB 12; Length 226;
Best Local Similarity 61.5%; Pred. No. 34;
Matches 8; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 1 VDGIIAYQNPAS 13
|||: |||||
DB 200 VDGIIAYQNPAS 212

RESULT 11
US-10-369-493-18803
; Sequence 18803, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 18803
; LENGTH: 565
; TYPE: PRT
; ORGANISM: Anabaena PCC7120
US-10-369-493-18803

US-10-369-493-5873
; Sequence 5873, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 5873
; LENGTH: 544
; TYPE: PRT
; ORGANISM: Caenorhabditis elegans
US-10-369-493-5873

Query Match 50.0%; Score 40.5; DB 15; Length 544;
Best Local Similarity 44.4%; Pred. No. 2.2e+02;
Matches 8; Conservative 2; Mismatches 5; Indels 3; Gaps 1;

QY 1 VDGII--AAYONFASWK 15
|||: |||||
DB 433 VGMVMTVTYQNPDMWK 450

RESULT 13
US-10-424-599-222397
; Sequence 222397, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 222397
; LENGTH: 43
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(43)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_42854C.1.pep
US-10-424-599-222397

Query Match 49.4%; Score 40; DB 12; Length 43;
Best Local Similarity 60.0%; Pred. No. 19;
Matches 6; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Query Match 53.1%; Score 43; DB 15; Length 565;
Best Local Similarity 53.3%; Pred. No. 87;
Matches 8; Conservative 2; Mismatches 3; Indels 2; Gaps 1;

QY 3 GIIAAYQ--PASWK 15
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DB 16 GLLATYQNSGPRQWK 30

RESULT 12
US-10-369-493-5873
; Sequence 5873, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 5873
; LENGTH: 544
; TYPE: PRT
; ORGANISM: Caenorhabditis elegans
US-10-369-493-5873

Query Match 50.0%; Score 40.5; DB 15; Length 544;
Best Local Similarity 44.4%; Pred. No. 2.2e+02;
Matches 8; Conservative 2; Mismatches 5; Indels 3; Gaps 1;

QY 1 VDGII--AAYONFASWK 15
|||: |||||
DB 433 VGMVMTVTYQNPDMWK 450

RESULT 13
US-10-424-599-222397
; Sequence 222397, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 222397
; LENGTH: 43
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(43)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_42854C.1.pep
US-10-424-599-222397

Query Match 49.4%; Score 40; DB 12; Length 43;
Best Local Similarity 60.0%; Pred. No. 19;
Matches 6; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

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QY      5 IIAAYQNPAW 14
Db      7 ITAYSNPSGW 16

RESULT 14
US-10-424-599-162641
; Sequence 162641, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 162641
; LENGTH: 65
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_117884C.1.pep
US-10-424-599-162641

Query Match      49.4%; Score 40; DB 12; Length 65;
Best Local Similarity 41.7%; Pred. No. 30;
Matches 5; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY      4 IIAAYQNPAW 15
Db      2 MVCIFENPKSWK 13

RESULT 15
US-10-106-698-6717
; Sequence 6717, Application US/10106698
; Publication No. US20030109690A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide
; FILE REFERENCE: PA005PI
; CURRENT APPLICATION NUMBER: US/10/106,698
; CURRENT FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: PCT/US00/26524
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US 60/157,137
; PRIOR FILING DATE: 1998-09-29
; PRIOR APPLICATION NUMBER: US 60/163,280
; PRIOR FILING DATE: 1999-11-03
; NUMBER OF SEQ ID NOS: 8564
; SOFTWARE: PatentIn Ver. 3.0
; SEQ ID NO 6717
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: MISC_FEATURE
; LOCATION: (8)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: MISC_FEATURE
; LOCATION: (11)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: MISC_FEATURE
; LOCATION: (111)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
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; NAME/KEY: MISC_FEATURE
; LOCATION: (112)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: MISC_FEATURE
; LOCATION: (123)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: MISC_FEATURE
; LOCATION: (125)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: MISC_FEATURE
; LOCATION: (129)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: MISC_FEATURE
; LOCATION: (134)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: MISC_FEATURE
; LOCATION: (138)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: MISC_FEATURE
; LOCATION: (140)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: MISC_FEATURE
; LOCATION: (154)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-10-106-698-6717

Query Match      49.4%; Score 40; DB 14; Length 158;
Best Local Similarity 85.7%; Pred. No. 75;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      8 YQNPAW 14
Db      150 YQNPAW 156
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Search completed: April 19, 2004, 11:29:29
Job time : 69.3163 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:39 ; Search time 14.6939 Seconds
(without alignments)
52.702 Million cell updates/sec

Title: US-09-308-027A-12

Perfect score: 87
Sequence: 1 GKHDCTEAFSTAWQA 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.*
1: /cgn2_6/ptodata/2/iaa/5A.COMB.pep.*
2: /cgn2_6/ptodata/2/iaa/5B.COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/6A.COMB.pep.*
4: /cgn2_6/ptodata/2/iaa/6B.COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/6CTUS.COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|----------------------|-------------------|
| 1 | 87 | 100.0 | 45 | US-08-467-023-135 | Sequence 135, App |
| 2 | 87 | 100.0 | 128 | US-08-467-023-187 | Sequence 187, App |
| 3 | 87 | 100.0 | 514 | US-08-467-023-134 | Sequence 134, App |
| 4 | 83 | 95.4 | 36 | US-08-467-023-137 | Sequence 137, App |
| 5 | 83 | 95.4 | 41 | US-08-467-023-136 | Sequence 136, App |
| 6 | 49 | 56.3 | 129 | US-09-107-532A-6990 | Sequence 6990, Ap |
| 7 | 49 | 56.3 | 183 | US-09-252-991A-32179 | Sequence 32179, A |
| 8 | 44 | 50.6 | 433 | US-08-941-532-6 | Sequence 6, Appli |
| 9 | 44 | 50.6 | 433 | US-09-051-239A-2 | Sequence 2, Appli |
| 10 | 42 | 48.3 | 7 | US-08-467-023-154 | Sequence 154, App |
| 11 | 40 | 46.0 | 284 | US-09-386-642-54 | Sequence 54, Appl |
| 12 | 40 | 46.0 | 288 | US-09-386-642-13 | Sequence 13, Appl |
| 13 | 40 | 46.0 | 289 | US-09-386-642-14 | Sequence 14, Appl |
| 14 | 40 | 46.0 | 323 | US-09-489-039A-9135 | Sequence 9135, Ap |
| 15 | 39 | 44.8 | 7 | US-08-467-023-157 | Sequence 157, App |
| 16 | 39 | 44.8 | 41 | US-08-924-629C-70 | Sequence 70, Appl |
| 17 | 39 | 44.8 | 557 | US-09-252-991A-25674 | Sequence 25674, A |
| 18 | 38 | 43.7 | 119 | US-09-489-039A-13238 | Sequence 13238, A |
| 19 | 38 | 43.7 | 152 | US-09-252-991A-26498 | Sequence 26498, A |
| 20 | 38 | 43.7 | 186 | US-08-750-194-2 | Sequence 2, Appli |
| 21 | 38 | 43.7 | 217 | US-08-176-414B-3 | Sequence 3, Appli |
| 22 | 38 | 43.7 | 219 | US-08-850-880-5 | Sequence 5, Appli |
| 23 | 38 | 43.7 | 219 | US-08-844-916-5 | Sequence 5, Appli |
| 24 | 38 | 43.7 | 219 | US-08-814-877-5 | Sequence 5, Appli |
| 25 | 38 | 43.7 | 219 | US-09-025-769B-273 | Sequence 273, App |
| 26 | 38 | 43.7 | 219 | US-09-025-769B-276 | Sequence 276, App |
| 27 | 38 | 43.7 | 219 | US-09-025-769B-295 | Sequence 295, App |

Sequence 297, App
Sequence 5, Appli
Sequence 10, Appl
Sequence 25, Appl
Sequence 41, Appl
Sequence 5415, Ap
Patent No. 5223425
Sequence 11247, A
Sequence 94, Appl
Sequence 222, App
Sequence 5, Appli
Sequence 4022, Ap
Sequence 21077, A
Sequence 7360, Ap
Sequence 11871, A
Sequence 5203, Ap
Sequence 19, Appl

28 43.7 219 4 US-09-025-769B-297
29 43.7 219 4 US-09-272-432A-5
30 43.7 219 4 US-09-495-880A-10
31 43.7 219 4 US-09-495-880A-25
32 43.7 219 4 US-09-495-880A-41
33 43.7 228 4 US-09-543-681A-5415
34 43.7 241 6 5223425-11
35 43.7 255 4 US-09-489-039A-11247
36 42.5 26 2 US-08-620-151-94
37 42.5 28 3 US-09-253-396A-222
38 42.5 170 3 US-09-081-180-5
39 42.5 170 3 US-09-040-786-5
40 42.5 184 4 US-09-134-000C-4022
41 42.5 217 4 US-09-252-991A-21077
42 42.5 266 4 US-09-543-681A-7360
43 42.5 320 4 US-09-489-039A-11871
44 42.5 343 4 US-09-543-681A-5203
45 42.5 477 4 US-09-198-452A-19

ALIGNMENTS

RESULT 1
US-08-467-023-135
; Sequence 135, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 135:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 45 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal

US-08-467-023-135

Query Match 100.0%; Score 87; DB 3; Length 45;
Best Local Similarity 100.0%; Pred. No. 1.3e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GKHDCTEAFSTAWQA 15
DB 25 GKHDCTEAFSTAWQA 39

RESULT 2

US-08-467-023-187
Sequence 187, Application US/08467023

; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 187:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 128 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal

US-08-467-023-187

Query Match 100.0%; Score 87; DB 3; Length 128;
Best Local Similarity 100.0%; Pred. No. 3.7e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GKHDCTEAFSTAWQA 15
DB 35 GKHDCTEAFSTAWQA 49

RESULT 3

US-08-467-023-134

; Sequence 134, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 134:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 514 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FRAGMENT TYPE: internal

US-08-467-023-134

Query Match 100.0%; Score 87; DB 3; Length 514;
Best Local Similarity 100.0%; Pred. No. 1.5e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GKHDCTEAFSTAWQA 15
DB 70 GKHDCTEAFSTAWQA 84

RESULT 4

US-08-467-023-137
Sequence 137, Application US/08467023

; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.

```
/
/ TITLE OF INVENTION: Allergenic Proteins And Peptides From
/ TITLE OF INVENTION: Japanese Cedar Pollen
/ NUMBER OF SEQUENCES: 261
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
/ STREET: 610 Lincoln St
/ CITY: Waltham
/ STATE: MA
/ COUNTRY: USA
/ ZIP: 02154
/
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent In Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/467,023
/ FILING DATE: June 6, 1995
/ CLASSIFICATION: 424
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/350,225
/ FILING DATE: December 6, 1994
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Jane E. Remillard
/ REGISTRATION NUMBER: 38,872
/ REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
/ TELEPHONE: (617) 227-7400
/ TELEFAX: (617) 227-5941
/ INFORMATION FOR SEQ ID NO: 137:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 36 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: peptide
/ FRAGMENT TYPE: internal
/
/ US-08-467-023-137
/
/ Query Match 95.4%; Score 83; DB 3; Length 36;
/ Best Local Similarity 100.0%; Pred. No. 4.7e-07;
/ Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
/
/ QY 1 GKHDCTEAFSTAWQ 14
/ DB 20 GKHDCTEAFSTAWQ 33
/
/ RESULT 5
/ US-08-467-023-136
/ Sequence 136 Application US/08467023
/ Patent No. 6090386
/ GENERAL INFORMATION:
/ APPLICANT: Griffith, Irwin J.;
/ APPLICANT: Pollock, Joanne;
/ APPLICANT: Bond, Julian F.;
/ APPLICANT: Garman, Richard D;
/ APPLICANT: Kuo, Mei-Chang;
/ APPLICANT: Yeung, Siu-mei H.;
/ APPLICANT: Brauer, Andrew;
/ APPLICANT: Exley, Mark A.;
/ APPLICANT: Powers, Steven P.
/ TITLE OF INVENTION: Allergenic Proteins And Peptides From
/ TITLE OF INVENTION: Japanese Cedar Pollen
/ NUMBER OF SEQUENCES: 261
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
/ STREET: 610 Lincoln St
/ CITY: Waltham
/ STATE: MA
/ COUNTRY: USA
/ ZIP: 02154
/
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
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/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent In Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/467,023
/ FILING DATE: June 6, 1995
/ CLASSIFICATION: 424
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/350,225
/ FILING DATE: December 6, 1994
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Jane E. Remillard
/ REGISTRATION NUMBER: 38,872
/ REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
/ TELEPHONE: (617) 227-7400
/ TELEFAX: (617) 227-5941
/ INFORMATION FOR SEQ ID NO: 136:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 41 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: peptide
/ FRAGMENT TYPE: internal
/
/ US-08-467-023-136
/
/ Query Match 95.4%; Score 83; DB 3; Length 41;
/ Best Local Similarity 100.0%; Pred. No. 5.4e-07;
/ Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
/
/ QY 1 GKHDCTEAFSTAWQ 14
/ DB 25 GKHDCTEAFSTAWQ 38
/
/ RESULT 6
/ US-09-107-532A-6990
/ Sequence 6990 Application US/09107532A
/ Patent No. 6583275
/ GENERAL INFORMATION:
/ APPLICANT: Lynn A Doucette-Stamm and David Bush
/ TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
/ ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
/
/ NUMBER OF SEQUENCES: 7310
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: GENOME THERAPEUTICS CORPORATION
/ STREET: 100 Beaver Street
/ CITY: Waltham
/ STATE: Massachusetts
/ COUNTRY: USA
/ ZIP: 02154
/
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: CD-ROM ISO9660
/ COMPUTER: PC
/ OPERATING SYSTEM: <Unknown>
/ SOFTWARE: ASCII
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/107,532A
/ FILING DATE: 30-Jun-1998
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 60/085,598
/ FILING DATE: 14 May 1998
/ APPLICATION NUMBER: 60/051571
/ FILING DATE: July 2, 1997
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Ariniello, Pamela Deneke
/ REGISTRATION NUMBER: 40,489
/ REFERENCE/DOCKET NUMBER: GTC-012
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (781)893-5007
/ TELEFAX: (781)893-8277
/ INFORMATION FOR SEQ ID NO: 6990:
/ SEQUENCE CHARACTERISTICS:
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;
; LENGTH: 129 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (B) LOCATION 1...129
; SEQUENCE DESCRIPTION: SEQ ID NO: 6990:
US-09-107-532A-6990

Query Match          56.3%; Score 49; DB 4; Length 129;
Best Local Similarity 61.5%; Pred. No. 0.68;
Matches 8; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy 1 GKHDCTEAFSTAW 13
Db 65 GRYACKERFSKAW 77

RESULT 7
US-09-252-991A-32179
; Sequence 32179, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 32179
; LENGTH: 183
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-32179

Query Match          56.3%; Score 49; DB 4; Length 183;
Best Local Similarity 53.3%; Pred. No. 0.97;
Matches 8; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GKHDCTEAFSTAWQA 15
Db 138 GSHGCTTAVRTGWKA 152

RESULT 8
US-08-941-532-6
; Sequence 6, Application US/08941532
; Patent No. 6096946
; GENERAL INFORMATION:
; APPLICANT: ROBERTS, Jeremy Alan
; APPLICANT: COUPE, Simon Allan
; APPLICANT: JENKINS, Elizabeth Sarah
; TITLE OF INVENTION: CONTROL OF POD DEHISCENCE
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sterne, Kessler, Goldstein & Fox
; STREET: 1100 New York Avenue
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
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; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30 (BPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/941,532
; FILING DATE: 30-SEP-1997
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/GB96/00757
; FILING DATE: 29-MAR-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB 9506684.1
; FILING DATE: 31-MAR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Esmond, Robert W.
; REGISTRATION NUMBER: 32,893
; REFERENCE/DOCKET NUMBER: 0623.0580001/RWE
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 371-2600
; TELEFAX: (202) 371-2540
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 433 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-941-532-6

Query Match          50.6%; Score 44; DB 3; Length 433;
Best Local Similarity 57.1%; Pred. No. 16;
Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

Qy 1 GKHDCTEAFSTAWQ 14
Db 80 GKTDDTQAFKKAWK 93

RESULT 9
US-09-051-239A-2
; Sequence 2, Application US/09051239A
; Patent No. 6420628
; GENERAL INFORMATION:
; APPLICANT: ULVSKOV, Peter
; APPLICANT: CHILD, Robin
; APPLICANT: VAN ONCKELIN, Henri
; APPLICANT: PRINSEN, Els
; APPLICANT: BORKHARDT, Bernard
; APPLICANT: SANDER, Lilli
; APPLICANT: PETERSEN, Morten
; APPLICANT: BUNGDARD, POUlsen, Gert
; APPLICANT: BOTTERMAN, Johan
; TITLE OF INVENTION: Seed Shattering
; FILE REFERENCE: 2121-0138P
; CURRENT APPLICATION NUMBER: US/09/051,239A
; CURRENT FILING DATE: 1998-09-28
; PRIOR APPLICATION NUMBER: PCT/EP96/04313
; PRIOR FILING DATE: 1996-10-04
; PRIOR APPLICATION NUMBER: EP 95 402241.4
; PRIOR FILING DATE: 1995-10-06
; PRIOR APPLICATION NUMBER: EP 95 203328.0
; PRIOR FILING DATE: 1995-12-08
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 433
; TYPE: PRT
; ORGANISM: Brassica napus
; FEATURE:
; OTHER INFORMATION: Strain cv. Topaz.
US-09-051-239A-2

Query Match          50.6%; Score 44; DB 4; Length 433;
Best Local Similarity 57.1%; Pred. No. 16;
Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;
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QY 1 GKHDCTEAFSTAWQ 14
Db 80 GKTDTPQAFKAWK 93

RESULT 10
US-08-467-023-154
; Sequence 154, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-wei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.;
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 154:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 7 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-154

Query Match 48.3%; Score 42; DB 3; Length 7;
Best Local Similarity 100.0%; Pred. No. 3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 KHDCTEA 8
Db 1 KHDCTEA 7

RESULT 11
US-09-386-642-54
; Sequence 54, Application US/09386642
; Patent No. 6420157
; GENERAL INFORMATION:
; APPLICANT: Darrow, Andrew

; APPLICANT: Qi, Jenson
; APPLICANT: Andrade-Gordon, Patricia
; TITLE OF INVENTION: Zymogen Activation System
; FILE REFERENCE: ORT-1028
; CURRENT APPLICATION NUMBER: US/09/386,642
; CURRENT FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 60
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 54
; LENGTH: 284
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Human MH2
; OTHER INFORMATION: protease in PFEK zymogen vector
US-09-386-642-54

Query Match 46.0%; Score 40; DB 4; Length 284;
Best Local Similarity 46.7%; Pred. NO. 46;
Matches 7; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 GKHDCTEAFSTAWQA 15
Db 54 GGYNCLPHSQPWQA 68

RESULT 12
US-09-386-642-13
; Sequence 13, Application US/09386642
; Patent No. 6420157
; GENERAL INFORMATION:
; APPLICANT: Darrow, Andrew
; APPLICANT: Qi, Jenson
; APPLICANT: Andrade-Gordon, Patricia
; TITLE OF INVENTION: Zymogen Activation System
; FILE REFERENCE: ORT-1028
; CURRENT APPLICATION NUMBER: US/09/386,642
; CURRENT FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 60
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 13
; LENGTH: 288
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Fusion gene
; OTHER INFORMATION: with homo sapien serine protease catalytic domain
US-09-386-642-13

Query Match 46.0%; Score 40; DB 4; Length 288;
Best Local Similarity 46.7%; Pred. No. 47;
Matches 7; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 GKHDCTEAFSTAWQA 15
Db 54 GGYNCLPHSQPWQA 68

RESULT 13
US-09-386-642-14
; Sequence 14, Application US/09386642
; Patent No. 6420157
; GENERAL INFORMATION:
; APPLICANT: Darrow, Andrew
; APPLICANT: Qi, Jenson
; APPLICANT: Andrade-Gordon, Patricia
; TITLE OF INVENTION: Zymogen Activation System
; FILE REFERENCE: ORT-1028
; CURRENT APPLICATION NUMBER: US/09/386,642
; CURRENT FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 60
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 14

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; LENGTH: 289
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Fusion gene
; OTHER INFORMATION: with homo sapien serine protease catalytic domain
US-09-386-642-14

Query Match          46.0%; Score 40; DB 4; Length 289;
Best Local Similarity 46.7%; Pred. No. 47;
Matches 7; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GKHDCTEAFSTAWQA 15
Db 54 GGYNCLEKHSQPWQA 68

RESULT 14
US-09-489-039A-9135
; Sequence 9135, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 9135
; LENGTH: 323
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-9135

Query Match          46.0%; Score 40; DB 4; Length 323;
Best Local Similarity 77.8%; Pred. No. 53;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 7 EAPSTAWQA 15
Db 94 EAFAAWQA 102

RESULT 15
US-08-467-023-157
; Sequence 157, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
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; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 157:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 7 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-157

Query Match          44.8%; Score 39; DB 3; Length 7;
Best Local Similarity 100.0%; Pred. No. 3e+05;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GKHDCT 6
Db 2 GKHDCT 7

Search completed: April 19, 2004, 12:38:18
Job time : 15.6939 secs
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:05 ; Search time 68.3163 Seconds
(without alignments)
60.529 Million cell updates/sec

Title: US-09-308-027A-13
Perfect score: 72
Sequence: 1 SAMLLVPGSKKFFVN 15

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database: Published Applications AA:*

- 1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|----|----------------------|
| 1 | 72 | 100.0 | 15 | 14 | US-10-354-240-91 |
| 2 | 69 | 95.8 | 514 | 10 | US-09-847-208-69 |
| 3 | 51 | 70.8 | 15 | 14 | US-10-354-240-92 |
| 4 | 47 | 65.3 | 15 | 14 | US-10-354-240-90 |
| 5 | 40 | 55.6 | 394 | 15 | US-10-289-762-876 |
| 6 | 39 | 54.2 | 231 | 12 | US-10-424-599-217138 |
| 7 | 39 | 54.2 | 459 | 12 | US-10-425-114-61505 |
| 8 | 39 | 54.2 | 497 | 12 | US-10-425-114-65135 |
| 9 | 39 | 54.2 | 524 | 12 | US-10-425-114-64486 |
| 10 | 39 | 54.2 | 533 | 12 | US-10-425-114-57875 |
| 11 | 38 | 52.8 | 133 | 12 | US-10-282-122A-76914 |
| 12 | 38 | 52.8 | 168 | 12 | US-10-424-599-259509 |
| 13 | 38 | 52.8 | 212 | 12 | US-10-424-599-224898 |
| 14 | 38 | 52.8 | 295 | 12 | US-09-826-001-24 |
| 15 | 38 | 52.8 | 389 | 12 | US-10-425-114-61382 |

ALIGNMENTS

RESULT 1

US-10-354-240-91
; Sequence 91, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SFO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; PRIOR FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 91
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 8
US-10-354-240-91

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| 16 | 38 | 52.8 | 579 | 15 | US-10-369-493-12903 | Sequence 12903, A |
| 17 | 37 | 51.4 | 130 | 12 | US-10-282-122A-60434 | Sequence 60434, A |
| 18 | 37 | 51.4 | 425 | 14 | US-10-284-985-31 | Sequence 31, Appl |
| 19 | 37 | 51.4 | 435 | 9 | US-09-861-696-3 | Sequence 3, Appl1 |
| 20 | 37 | 51.4 | 455 | 9 | US-09-861-696-70 | Sequence 70, Appl |
| 21 | 37 | 51.4 | 455 | 9 | US-09-464-099A-3 | Sequence 3, Appl1 |
| 22 | 37 | 51.4 | 455 | 9 | US-09-464-099A-70 | Sequence 70, Appl |
| 23 | 37 | 51.4 | 524 | 12 | US-10-424-599-169346 | Sequence 169346, A |
| 24 | 37 | 51.4 | 525 | 14 | US-10-101-464A-613 | Sequence 613, App |
| 25 | 37 | 51.4 | 541 | 15 | US-10-369-493-1867 | Sequence 1867, Ap |
| 26 | 36.5 | 50.7 | 425 | 14 | US-10-223-598-4 | Sequence 4, Appli |
| 27 | 36 | 50.0 | 56 | 12 | US-10-424-599-147534 | Sequence 147534, A |
| 28 | 36 | 50.0 | 58 | 14 | US-10-083-357-940 | Sequence 940, App |
| 29 | 36 | 50.0 | 82 | 12 | US-10-424-599-170001 | Sequence 170001, A |
| 30 | 36 | 50.0 | 84 | 12 | US-10-424-599-202683 | Sequence 202683, A |
| 31 | 36 | 50.0 | 85 | 12 | US-10-424-599-152697 | Sequence 152697, A |
| 32 | 36 | 50.0 | 130 | 12 | US-10-282-122A-51936 | Sequence 51936, A |
| 33 | 36 | 50.0 | 130 | 12 | US-10-282-122A-78232 | Sequence 78232, A |
| 34 | 36 | 50.0 | 135 | 14 | US-10-113-431-8 | Sequence 8, Appli |
| 35 | 36 | 50.0 | 138 | 9 | US-09-731-872-252 | Sequence 252, App |
| 36 | 36 | 50.0 | 138 | 9 | US-09-981-876-222 | Sequence 222, App |
| 37 | 36 | 50.0 | 138 | 10 | US-09-148-545-222 | Sequence 222, App |
| 38 | 36 | 50.0 | 138 | 10 | US-09-876-997-252 | Sequence 252, App |
| 39 | 36 | 50.0 | 139 | 9 | US-09-981-876-160 | Sequence 160, App |
| 40 | 36 | 50.0 | 139 | 10 | US-09-148-545-160 | Sequence 160, App |
| 41 | 36 | 50.0 | 165 | 12 | US-10-424-599-284690 | Sequence 284690, A |
| 42 | 36 | 50.0 | 219 | 14 | US-10-032-585-7011 | Sequence 7011, Ap |
| 43 | 36 | 50.0 | 255 | 15 | US-10-369-493-9389 | Sequence 9389, Ap |
| 44 | 36 | 50.0 | 257 | 15 | US-10-369-493-17635 | Sequence 17635, A |
| 45 | 36 | 50.0 | 340 | 12 | US-10-282-122A-47547 | Sequence 47547, A |

Query Match 100.0%; Score 72; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 3.6e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SAMLLVPGSKKFFVN 15

Db 1 SAMLLVPGSKKFFVN 15

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; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiho
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 90
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 7
US-10-354-240-90

Query Match 65.3%; Score 47; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.12; 0; Mismatches 0; Indels 0; Gaps 0;
Matches 10; Conservative 0;

Qy 1 SAMLLVPGSK 10
Db 6 SAMLLVPGSK 15

RESULT 5
US-10-289-762-876
; Sequence 876, Application US/10289762
; Publication No. US20040006218A1
; GENERAL INFORMATION:
; APPLICANT: Griffiths, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/10/289,762
; CURRENT FILING DATE: 2003-03-27
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 876
; LENGTH: 394
; TYPE: PRT
; ORGANISM: Chlamydia pneumoniae
US-10-289-762-876

Query Match 55.6%; Score 40; DB 15; Length 394;
Best Local Similarity 58.3%; Pred. No. 88;
Matches 7; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 3 MLLVPGSKKFVV 14
Db 246 LPALPGTKKFVV 257

RESULT 6
US-10-424-599-217138
; Sequence 217138, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei

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; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGB-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 69
; LENGTH: 514
; TYPE: PRT
; ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-69

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Query Match 95.8%; Score 69; DB 10; Length 514;
Best Local Similarity 93.3%; Pred. No. 0.00063;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

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Qy 1 SAMLLVPGSKKFVV 15
Db 90 SAMLLVPGNKKFVV 104

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; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiho
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 92
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 9
US-10-354-240-92

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Query Match 70.8%; Score 51; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.023;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 6 VPGSKKFVV 15
Db 1 VPGSKKFVV 10

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; Sequence 90, Application US/10354240

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; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 217138
; LENGTH: 231
; TYPE: PRT
; ORGANISM: Glycine max
; NAME/KEY: unsure
; LOCATION: (1)..(231)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_38102C.1.pep
US-10-424-599-217138

Query Match          54.2%; Score 39; DB 12; Length 231;
Best Local Similarity 63.6%; Pred. No. 74;
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 5 LVPSSRKMYN 15
|||:|:|
Db 189 LVPSSRKMYN 199

RESULT 7
US-10-425-114-61505
; Sequence 61505, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 61505
; LENGTH: 459
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB143-005-F3_FLI.pep
US-10-425-114-61505

Query Match          54.2%; Score 39; DB 12; Length 459;
Best Local Similarity 53.8%; Pred. No. 1.6e+02;
Matches 7; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 2 AMLLVPGSKKFV 14
|:|:|:|
Db 83 ATMLIPGAKFRV 95

RESULT 8
US-10-425-114-65135
; Sequence 65135, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
```

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; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 65135
; LENGTH: 497
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: UC-ZMFLMO17103D03_FLI.pep
US-10-425-114-65135

Query Match          54.2%; Score 39; DB 12; Length 497;
Best Local Similarity 53.8%; Pred. No. 1.7e+02;
Matches 7; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 2 AMLLVPGSKKFV 14
|:|:|:|
Db 121 ATMLIPGAKFRV 133

RESULT 9
US-10-425-114-64486
; Sequence 64486, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 64486
; LENGTH: 524
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3060-104-F8_FLI.pep
US-10-425-114-64486

Query Match          54.2%; Score 39; DB 12; Length 524;
Best Local Similarity 53.8%; Pred. No. 1.8e+02;
Matches 7; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 2 AMLLVPGSKKFV 14
|:|:|:|
Db 148 ATMLIPGAKFRV 160

RESULT 10
US-10-425-114-57875
; Sequence 57875, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
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; SEQ ID NO 57875
; LENGTH: 533
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: UC-ZMFLMO17051F08_FLI.pep
US-10-425-114-57875

Query Match      54.2%; Score 39; DB 12; Length 533;
Best Local Similarity 53.8%; Pred. No. 1.9e+02;
Matches 7; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY      2 AMLLVPGSKKFFV 14
Db      157 ATMLIFGAKFRV 169

RESULT 11
US-10-282-122A-76914
; Sequence 76914, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITEA 034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 76914
; LENGTH: 133
; TYPE: PRT
; ORGANISM: Ureaplasma urealyticum
US-10-282-122A-76914

Query Match      52.8%; Score 38; DB 12; Length 133;
Best Local Similarity 72.7%; Pred. No. 61;
Matches 8; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      5 LVPGSKKFFVN 15
Db      157 ATMLIFGAKFRV 169

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Db      24 LVPGSGKVLVN 34

RESULT 12
US-10-424-599-259509
; Sequence 259509, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J
; APPLICANT: Kovacic, David K
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 259509
; LENGTH: 168
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_76362C.1.pep
US-10-424-599-259509

Query Match      52.8%; Score 38; DB 12; Length 168;
Best Local Similarity 60.0%; Pred. No. 78;
Matches 9; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY      1 SAMLLVPGSKKFFVN 15
Db      61 SASLLVEGTNPVNV 75

RESULT 13
US-10-424-599-224898
; Sequence 224898, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J
; APPLICANT: Kovacic, David K
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 224898
; LENGTH: 212
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_45113C.1.pep
US-10-424-599-224898

Query Match      52.8%; Score 38; DB 12; Length 212;
Best Local Similarity 87.5%; Pred. No. 1e+02;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      6 VPGSKKFFV 13
Db      192 VPGSKKFL 199

RESULT 14
US-09-826-001-24
; Sequence 24, Application US/09826001
; Publication No. US20020086300A1
; GENERAL INFORMATION:
; APPLICANT: ADLER, JON ELLIOT

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; APPLICANT: O'CONNELL, SHAWN M.
; TITLE OF INVENTION: NOVEL SIGNAL TRANSDUCTION MOLECULES
; FILE REFERENCE: 078003-0279153
; CURRENT APPLICATION NUMBER: US/09/826,001
; CURRENT FILING DATE: 2001-08-23
; PRIOR APPLICATION NUMBER: 60/195,534
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: 60/259,514
; PRIOR FILING DATE: 2001-01-04
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 24
; LENGTH: 295
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-826-001-24

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Query Match          52.8%; Score 38; DB 12; Length 295;
Best Local Similarity 72.7%; Pred. No. 1.5e+02;
Matches 8; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

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QY      4 LLVPGSKFVN 14
Db      99 LLVPGSVSEVL 109

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RESULT 15
US-10-425-114-61382
; Sequence 61382, Application US/10425114
; Publication No. US20040034988A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 61382
; LENGTH: 389
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3060-114-D7_FLI.pep
US-10-425-114-61382

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Query Match          52.8%; Score 38; DB 12; Length 389;
Best Local Similarity 46.7%; Pred. No. 2e+02;
Matches 7; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

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QY      1 SAMLLVPGSKFVN 15
Db      304 SSTLAVPSNRKFVID 318

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Search completed: April 19, 2004, 11:29:28
Job time : 68.3163 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:05 ; Search time 68.3163 Seconds
(without alignments)
60.529 Million cell updates/sec

Title: US-09-308-027A-12
Perfect score: 87
Sequence: 1 GKHDCTEAFSTAWQA 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/2/pubaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/2/pubaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/2/pubaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/2/pubaa/US07_NEW_PUB.pep.*
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- 10: /cgn2_6/ptodata/2/pubaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/2/pubaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/2/pubaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/2/pubaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/2/pubaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/2/pubaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/2/pubaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/2/pubaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/2/pubaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|----|----------------------|
| 1 | 87 | 100.0 | 15 | 14 | US-10-354-240-87 |
| 2 | 87 | 100.0 | 514 | 10 | US-09-847-208-69 |
| 3 | 58 | 66.7 | 15 | 14 | US-10-354-240-86 |
| 4 | 55 | 63.2 | 422 | 12 | US-10-424-599-176320 |
| 5 | 53 | 60.9 | 15 | 14 | US-10-354-240-88 |
| 6 | 47 | 54.0 | 81 | 12 | US-10-424-599-241554 |
| 7 | 46 | 52.9 | 117 | 9 | US-09-815-242-10776 |
| 8 | 46 | 52.9 | 117 | 12 | US-10-282-122A-57376 |
| 9 | 44 | 50.6 | 265 | 12 | US-10-424-599-175851 |
| 10 | 44 | 50.6 | 433 | 13 | US-10-151-868-2 |
| 11 | 44 | 50.6 | 2871 | 15 | US-10-015-115-57 |
| 12 | 44 | 50.6 | 3002 | 15 | US-10-015-115-56 |
| 13 | 41 | 47.1 | 66 | 12 | US-10-424-599-245120 |
| 14 | 41 | 47.1 | 321 | 14 | US-10-238-075-601 |
| 15 | 41 | 47.1 | 617 | 12 | US-10-424-599-248678 |

Sequence 18, Appl
Sequence 2396, Ap
Sequence 627, App
Sequence 7021, Ap
Sequence 11947, A
Sequence 200790,
Sequence 66151, A
Sequence 43413, A
Sequence 70, Appl
Sequence 21, Appl
Sequence 155266,
Sequence 31459, A
Sequence 230684,
Sequence 468, App
Sequence 12523, A
Sequence 230687,
Sequence 6129, Ap
Sequence 4, Appli
Sequence 235443,
Sequence 43707, A
Sequence 21288, A
Sequence 59, Appl
Sequence 2378, Ap
Sequence 2659, Ap
Sequence 1066, Ap
Sequence 364, App
Sequence 536, App
Sequence 536, App
Sequence 3, Appli

635 9 US-09-949-842-18
709 15 US-10-264-049-2396
952 16 US-10-389-566-627
115 14 US-10-106-688-7021
299 14 US-10-156-761-11947
368 12 US-10-424-599-200790
496 12 US-10-425-114-66151
573 12 US-10-425-114-43413
41 10 US-09-883-343A-70
54 10 US-09-733-643-21
115 12 US-10-424-599-155266
115 14 US-10-029-386-31459
193 12 US-10-424-599-230684
227 14 US-10-103-313-468
249 15 US-10-369-493-12523
283 12 US-10-424-599-230687
385 15 US-10-369-493-6129
398 12 US-10-362-091-4
443 12 US-10-424-599-235443
456 12 US-10-425-114-44707
544 12 US-10-282-122A-43707
754 15 US-10-369-493-21288
2871 15 US-10-015-115-59
609 15 US-10-264-237-2378
1196 15 US-10-094-749-2699
117 9 US-09-925-301-1066
134 13 US-10-079-623-364
146 12 US-09-925-298-536
148 14 US-10-102-806-536
204 9 US-09-930-329-3

ALIGNMENTS

RESULT 1
US-10-354-240-87
; Sequence 87, Application US/10354240
; Publication No. US220030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; PRIOR FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 87
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 4
US-10-354-240-87

Query Match 100.0%; Score 87; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.4e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GKHDCTEAFSTAWQA 15
| | | | | | | | | | | | | | |
Db 1 GKHDCTEAFSTAWQA 15

```

; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 176320
; LENGTH: 422
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_130234C.1.pep
US-10-424-599-176320

Query Match      63.2%; Score 55; DB 12; Length 422;
Best Local Similarity 69.2%; Pred. No. 0.77;
Matches 9; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 GKHDCTEAFSTAW 13
Db 64 GKFDCTESFMQAW 76

RESULT 5
US-10-354-240-88
; Sequence 88, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 88
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 5
US-10-354-240-88

Query Match      60.9%; Score 53; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.06;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 TEAFSTAWQA 15
Db 1 TEAFSTAWQA 10

RESULT 6
US-10-424-599-241554
; Sequence 241554, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:

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; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGF-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67,002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 69
; LENGTH: 514
; TYPE: PRT
; ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-69

Query Match      100.0%; Score 87; DB 10; Length 514;
Best Local Similarity 100.0%; Pred. No. 4.7e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GKHDCTEAFSTAWQA 15
Db 70 GKHDCTEAFSTAWQA 84

RESULT 3
US-10-354-240-86
; Sequence 86, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 86
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 3
US-10-354-240-86

Query Match      65.7%; Score 58; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.009;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GKHDCTEAFS 10
Db 6 GKHDCTEAFS 15

RESULT 4
US-10-424-599-176320
; Sequence 176320, Application US/10424599

```

APPLICANT: La Rosa Thomas J
APPLICANT: Kovalic David K
APPLICANT: Zhou Yihua
APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
FILE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53223)B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 241554
LENGTH: 81
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MBT3847_6014C.1.psp
US-10-424-599-241554

Query Match 54.0%; Score 47; DB 12; Length 81;
Best Local Similarity 50.0%; Pred. No. 3.2;
Matches 6; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 2 KHDCTEAFSTAW 13
Db 34 QHDCNTYSTLW 45

RESULT 7
US-09-815-242-10776
Sequence 10776, Application US/09815242
Patent No. US20020061569A1
GENERAL INFORMATION:
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Kari L.
APPLICANT: Zyskind, Judith W.
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John D.
APPLICANT: Carr, Grant J.
APPLICANT: Yamamoto, Robert T.
APPLICANT: Xu, H. Howard
TITLE OF INVENTION: Identification of Essential Genes in
FILE REFERENCE: ELITRA.011A
CURRENT APPLICATION NUMBER: US/09/815,242
CURRENT FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2001-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/267,636
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 14110
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 10776
LENGTH: 117
TYPE: PRT
ORGANISM: Enterococcus faecalis
US-09-815-242-10776

Query Match 52.9%; Score 46; DB 9; Length 117;
Best Local Similarity 61.5%; Pred. No. 6.7;
Matches 8; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 GKHDCTEAFSTAW 13
Db 52 GRFACKFAFSKAW 64

RESULT 9
US-10-424-599-175851
Sequence 175851, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: La Rosa Thomas J
APPLICANT: Kovalic David K
APPLICANT: Zhou Yihua
APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
FILE OF INVENTION: Plants and Uses Thereof for Plant Improvement

Db 52 GRFACKFAFSKAW 64

RESULT 8
US-10-282-122A-57376
Sequence 57376, Application US/10282122A
Publication No. US20040029129A1
GENERAL INFORMATION:
APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Kari
APPLICANT: Zyskind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
APPLICANT: Xu, H.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITRA.034A
CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230,347
PRIOR FILING DATE: 2000-09-09
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/267,636
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 78614
SOFTWARE: PatentIn version 3.1
SEQ ID NO 57376
LENGTH: 117
TYPE: PRT
ORGANISM: Enterococcus faecalis
US-10-282-122A-57376

Query Match 52.9%; Score 46; DB 12; Length 117;
Best Local Similarity 61.5%; Pred. No. 6.7;
Matches 8; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 GKHDCTEAFSTAW 13
Db 52 GRFACKFAFSKAW 64

RESULT 9
US-10-424-599-175851
Sequence 175851, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: La Rosa Thomas J
APPLICANT: Kovalic David K
APPLICANT: Zhou Yihua
APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
FILE OF INVENTION: Plants and Uses Thereof for Plant Improvement

```

; FILE REFERENCE: 38-21(532323)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; NUMBER OF FILING DATE: 2003-04-28
; SEQ ID NO 175851
; LENGTH: 265
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_129811C.1.pep
US-10-424-599-175851

Query Match      50.6%; Score 44; DB 12; Length 265;
Best Local Similarity 72.7%; Pred. No. 32;
Matches 8; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy      1 GKHDCTEAFST 11
Db      204 GEGDCAEAFST 214

RESULT 10
US-10-151-668-2
; Sequence 2, Application US/10151668
; Publication No. US20020184660A1
; GENERAL INFORMATION:
; APPLICANT: ULVSKOV, Peter
; APPLICANT: CHILD, Robin
; APPLICANT: VAN ONCKELIN, Henri
; APPLICANT: PRINSEN, Els
; APPLICANT: BORKHARDT, Bernard
; APPLICANT: SANDER, Lilli
; APPLICANT: PETERSEN, Morten
; APPLICANT: BONDGARD POULSEN, Gert
; APPLICANT: BOTTERMAN, Johan
; TITLE OF INVENTION: Seed Shattering
; FILE REFERENCE: 2121-0138P
; CURRENT APPLICATION NUMBER: US/10/151,668
; CURRENT FILING DATE: 2002-05-21
; PRIOR APPLICATION NUMBER: US/09/051,239
; PRIOR FILING DATE: 1998-09-28
; PRIOR APPLICATION NUMBER: PCT/EP96/04313
; PRIOR FILING DATE: 1996-10-04
; PRIOR APPLICATION NUMBER: EP 95 402241.4
; PRIOR FILING DATE: 1995-10-06
; PRIOR APPLICATION NUMBER: EP 95 203328.0
; PRIOR FILING DATE: 1995-12-08
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 433
; TYPE: PRT
; ORGANISM: Brassica napus
; FEATURE:
; OTHER INFORMATION: Strain cv. Topaz.
US-10-151-668-2

Query Match      50.6%; Score 44; DB 13; Length 433;
Best Local Similarity 57.1%; Pred. No. 53;
Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

Qy      1 GKHDCTEAFSTAQ 14
Db      80 GKTDDTQAFKAWK 93

RESULT 11
US-10-015-115-57
; Sequence 57, Application US/10015115
; Publication No. US20030207800A1
; GENERAL INFORMATION:
; APPLICANT: Malyankar, Uriel M
; APPLICANT: Shenoy, Suresh G
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Zethusen, Bryan D
; APPLICANT: Kekuda, Ramesha
; APPLICANT: Gangolli, Esha A
; APPLICANT: Shimkets, Richard A
; APPLICANT: Taupier, Raymond J
; APPLICANT: Li, Li
; APPLICANT: Padigaru, Muralidhara
; TITLE OF INVENTION: Proteins, Polynucleotides Encoding Them and Methods of
; FILE REFERENCE: 21402-211
; CURRENT APPLICATION NUMBER: US/10/015,115
; CURRENT FILING DATE: 2002-09-23
; PRIOR APPLICATION NUMBER: 60/248,153
; PRIOR FILING DATE: 2000-11-13
; PRIOR APPLICATION NUMBER: 60/249,598

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; PRIOR FILING DATE: 2000-11-17
; PRIOR APPLICATION NUMBER: 60/264,240
; PRIOR FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/266,127
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: 60/269,562
; PRIOR FILING DATE: 2001-02-16
; PRIOR APPLICATION NUMBER: 60/304,348
; PRIOR FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/309,261
; PRIOR FILING DATE: 2001-07-31
; PRIOR APPLICATION NUMBER: 60/313,283
; PRIOR FILING DATE: 2001-08-17
; NUMBER OF SEQ ID NOS: 205
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 56
; LENGTH: 3002
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-015-115-56

Query Match 50.6%; Score 44; DB 15; Length 3002;
Best Local Similarity 100.0%; Pred. No. 3.6e+02;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GKHDCTE 7
DB 2385 GKHDCTE 2391

RESULT 13
US-10-424-599-245120
; Sequence 245120, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 245120
; LENGTH: 66
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(66)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_63374C.1.pep
US-10-424-599-245120

Query Match 47.1%; Score 41; DB 12; Length 66;
Best Local Similarity 85.7%; Pred. No. 26;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 GKHDCTE 7
DB 55 GRHDCTE 61

RESULT 14
US-10-238-075-601
; Sequence 601, Application US/10238075
; Publication No. US20030148324A1
; GENERAL INFORMATION:
; APPLICANT: I.N.S.E.R.M.
; TITLE OF INVENTION: Polynucleotides which are of nature B2/D+ A- and which are isolat

; TITLE OF INVENTION: E.coli, and biological uses of these polynucleotides and of thei
; FILE REFERENCE: BLANDINE
; CURRENT APPLICATION NUMBER: US/10/238,075
; CURRENT FILING DATE: 2002-09-10
; PRIOR APPLICATION NUMBER: 0003145
; PRIOR FILING DATE: 2000-03-10
; NUMBER OF SEQ ID NOS: 1576
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 601
; LENGTH: 321
; TYPE: PRT
; ORGANISM: Escherichia coli
US-10-238-075-601

Query Match 47.1%; Score 41; DB 14; Length 321;
Best Local Similarity 66.7%; Pred. No. 1.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 GKHDCTEAF 9
DB 189 GRKNCVESF 197

RESULT 15
US-10-424-599-248678
; Sequence 248678, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 248678
; LENGTH: 617
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(617)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_66586C.1.pep
US-10-424-599-248678

Query Match 47.1%; Score 41; DB 12; Length 617;
Best Local Similarity 54.5%; Pred. No. 2.4e+02;
Matches 6; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 3 HDCTEAFSTAW 13
DB 403 HDASDAPFTEW 413

Search completed: April 19, 2004, 11:29:28
Job time : 68.3163 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:39 ; Search time 14.6939 Seconds
(without alignments)
52.702 Million cell updates/sec

Title: US-09-308-027A-10
Perfect score: 78
Sequence: 1 AFVNGNATPQLTK 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA.*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep.*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep.*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|---------------------|
| 1 | 78 | 100.0 | 16 | 3 | US-08-467-023-19 |
| 2 | 78 | 100.0 | 20 | 3 | US-08-467-023-58 |
| 3 | 78 | 100.0 | 63 | 3 | US-08-467-023-65 |
| 4 | 78 | 100.0 | 374 | 3 | US-08-467-023-2 |
| 5 | 71 | 91.0 | 16 | 2 | US-08-773-006-4 |
| 6 | 67 | 85.9 | 367 | 3 | US-08-467-023-95 |
| 7 | 53 | 67.9 | 20 | 3 | US-08-467-023-59 |
| 8 | 53 | 67.9 | 23 | 2 | US-08-773-006-3 |
| 9 | 45 | 57.7 | 370 | 3 | US-08-467-023-97 |
| 10 | 42 | 53.8 | 397 | 2 | US-08-750-134A-9 |
| 11 | 42 | 53.8 | 397 | 3 | US-09-363-745-9 |
| 12 | 42 | 53.8 | 397 | 3 | US-09-191-136-16 |
| 13 | 42 | 53.8 | 397 | 3 | US-09-191-136-17 |
| 14 | 42 | 53.8 | 505 | 3 | US-08-747-221B-14 |
| 15 | 42 | 53.8 | 505 | 3 | US-09-005-051-14 |
| 16 | 42 | 53.8 | 505 | 4 | US-09-403-942F-14 |
| 17 | 42 | 53.8 | 530 | 3 | US-08-747-221B-53 |
| 18 | 42 | 53.8 | 530 | 3 | US-09-005-051-53 |
| 19 | 42 | 53.8 | 530 | 4 | US-09-403-942F-53 |
| 20 | 42 | 53.8 | 550 | 3 | US-08-747-221B-19 |
| 21 | 42 | 53.8 | 550 | 3 | US-08-747-221B-58 |
| 22 | 42 | 53.8 | 550 | 3 | US-09-005-051-19 |
| 23 | 42 | 53.8 | 550 | 3 | US-09-005-051-58 |
| 24 | 42 | 53.8 | 550 | 4 | US-09-403-942F-19 |
| 25 | 42 | 53.8 | 550 | 4 | US-09-403-942F-58 |
| 26 | 39 | 50.0 | 1335 | 4 | US-09-134-001C-3716 |
| 27 | 38 | 46.7 | 1337 | 3 | US-08-654-585-2 |

28 38 48.7 1337 4 US-09-447-533-2 Sequence 2, Appli
29 38 48.7 1337 5 PCT-US95-05512-2 Sequence 2, Appli
30 37 47.4 128 4 US-09-252-991A-28235 Sequence 28235, A
31 37 47.4 158 4 US-09-540-236-2076 Sequence 2076, Ap
32 37 47.4 317 4 US-09-533-029-4 Sequence 4, Appli
33 37 47.4 380 3 US-08-969-815-4 Sequence 4, Appli
34 37 47.4 380 3 US-09-120-025-4 Sequence 4, Appli
35 37 47.4 380 4 US-09-710-481-4 Sequence 4, Appli
36 37 47.4 380 4 US-09-553-875-4 Sequence 4, Appli
37 37 47.4 380 4 US-09-768-670-4 Sequence 4, Appli
38 37 47.4 552 4 US-09-134-000C-3838 Sequence 3838, Ap
39 37 47.4 625 4 US-09-196-270-6 Sequence 6, Appli
40 37 47.4 1622 4 US-09-231-899-72 Sequence 72, Appli
41 36 46.2 165 2 US-08-955-138-8 Sequence 8, Appli
42 36 46.2 236 4 US-09-134-001C-3558 Sequence 3558, Ap
43 36 46.2 242 4 US-09-489-039A-8068 Sequence 8068, Ap
44 36 46.2 258 4 US-09-134-001C-3536 Sequence 3536, Ap
45 36 46.2 267 3 US-08-718-905-3 Sequence 3, Appli

ALIGNMENTS

RESULT 1
US-08-467-023-19
; Sequence 19, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 16 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal

; ORIGINAL SOURCE:
; ORGANISM: Cryptomeria japonica
US-08-467-023-19

Query Match 100.0%; Score 78; DB 3; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.4e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AFNVNGNATPQLTK 15
| | | | | | | | | | | | | | | |
DB 2 AFNVNGNATPQLTK 16

RESULT 2

US-08-467-023-58
; Sequence 58, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 58:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-59

Query Match 100.0%; Score 78; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.8e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AFNVNGNATPQLTK 15
| | | | | | | | | | | | | | | |
DB 6 AFNVNGNATPQLTK 20

RESULT 3

US-08-467-023-65
; Sequence 65, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 65:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 63 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-65

Query Match 100.0%; Score 78; DB 3; Length 63;
Best Local Similarity 100.0%; Pred. No. 7.4e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AFNVNGNATPQLTK 15
| | | | | | | | | | | | | | | |
DB 36 AFNVNGNATPQLTK 50

RESULT 4

US-08-467-023-2
; Sequence 2, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;

APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From
TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSER: Immunologic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023

FILING DATE: June 6, 1995
CLASSIFICATION: 424

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225

FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:

NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872

REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941

INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:

LENGTH: 374 amino acids
TYPE: amino acid

TOPOLOGY: linear
MOLECULE TYPE: protein

US-08-467-023-2

Query Match 100.0%; Score 78; DB 3; Length 374;
Best Local Similarity 100.0%; Pred. No. 6.5e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AFNVENGATPQTK 15
Db 347 AFNVENGATPQTK 361

RESULT 5

US-08-773-008-4
Sequence 4, Application US/08773008

Patent No. 5874401
GENERAL INFORMATION:

APPLICANT: SANOU, Osamu
APPLICANT: HINO, Katsuhiko

TITLE OF INVENTION: KURIMOTO, Masashi
TITLE OF INVENTION: PROTEIN, PROCESS TO PRODUCE THE SAME,

TITLE OF INVENTION: AND USES THEREOF
NUMBER OF SEQUENCES: 5

CORRESPONDENCE ADDRESS:
ADDRESSER: BROWDY AND NEIMARK

STREET: 419 Seventh Street, N.W., Suite 300
CITY: Washington

STATE: D.C.
COUNTRY: USA

ZIP: 20004

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/773,008
FILING DATE: 24-DEC-1996
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/354,815
FILING DATE: 08-DEC-1994
APPLICATION NUMBER: JP 347017
FILING DATE: 27-DEC-1993
ATTORNEY/AGENT INFORMATION:
NAME: YUN, Allen C.
REGISTRATION NUMBER: 37,971
REFERENCE/DOCKET NUMBER: SANOU=1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
TELEX: 248633

INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:

LENGTH: 16 amino acids
TYPE: amino acid

STRANDEDNESS: single
TOPOLOGY: linear

MOLECULE TYPE: peptide
US-08-773-008-4

Query Match 91.0%; Score 71; DB 2; Length 16;
Best Local Similarity 93.3%; Pred. No. 2.4e-06;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AFNVENGATPQTK 15
Db 2 AFNVENGATPQTK 16

RESULT 6

US-08-467-023-95

Sequence 95, Application US/08467023
Patent No. 6090386

GENERAL INFORMATION:

APPLICANT: Griffith, Irwin J.;
APPLICANT: Pollock, Joanne;

APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;

APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;

APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;

APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From

TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261

CORRESPONDENCE ADDRESS:
ADDRESSER: Immunologic Pharmaceutical Corporation, Inc.

STREET: 610 Lincoln St
CITY: Waltham

STATE: MA
COUNTRY: USA

ZIP: 02154

COMPUTER READABLE FORM: disk
MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995

CLASSIFICATION: 424
PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994

ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard

REGISTRATION NUMBER: 38,872

RESULT 9
US-08-467-023-97
; Sequence 97, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;

```
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 97:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 370 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-467-023-97

Query Match 57.7%; Score 45; DB 3; Length 370;
Best Local Similarity 60.0%; Pred. No. 4,9;
Matches 9; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 1 AFVNGNATPOLTK 15
Db 341 AFKVESANEVPTLK 355

RESULT 10
US-08-750-134A-9
; Sequence 9, Application US/08/50134A
; Patent No. 5985603
; GENERAL INFORMATION:
; APPLICANT: VALERA, SOLEDAD
; APPLICANT: BUELL, GARY
; TITLE OF INVENTION: P2x RECEPTORS (PURINOCEPTOR FAMILY)
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE P.C.
; STREET: 1100 NORTH GLEBE ROAD
; CITY: ARLINGTON
; STATE: VIRGINIA
; COUNTRY: U.S.A.
; ZIP: 22201-4714
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/363,745
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/750,134
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: CRAWFORD, ARTHUR C.
; REGISTRATION NUMBER: 25,327
; REFERENCE/DOCKET NUMBER: 1430-116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 816-4006
; TELEFAX: (703) 816-4100
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 397 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-363-745-9
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; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/750,134A
; FILING DATE: 22-JAN-1997
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: CRAWFORD, ARTHUR C.
; REGISTRATION NUMBER: 25,327
; REFERENCE/DOCKET NUMBER: 1430-116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 816-4006
; TELEFAX: (703) 816-4100
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 397 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-750-134A-9

Query Match 53.8%; Score 42; DB 2; Length 397;
Best Local Similarity 61.5%; Pred. No. 18;
Matches 8; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 2 FNVNGNATPOLTK 14
Db 184 FNFEGNLLPNTL 196

RESULT 11
US-09-363-745-9
; Sequence 9, Application US/09363745
; Patent No. 6194162
; GENERAL INFORMATION:
; APPLICANT: VALERA, SOLEDAD
; APPLICANT: BUELL, GARY
; TITLE OF INVENTION: P2x RECEPTORS (PURINOCEPTOR FAMILY)
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE P.C.
; STREET: 1100 NORTH GLEBE ROAD
; CITY: ARLINGTON
; STATE: VIRGINIA
; COUNTRY: U.S.A.
; ZIP: 22201-4714
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/363,745
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/750,134
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: CRAWFORD, ARTHUR C.
; REGISTRATION NUMBER: 25,327
; REFERENCE/DOCKET NUMBER: 1430-116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 816-4006
; TELEFAX: (703) 816-4100
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 397 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-363-745-9
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Query Match      53.8%; Score 42; DB 3; Length 397;
Best Local Similarity 61.5%; Pred. No. 18;
Matches 8; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY      2 FNVENGATPOLT 14
DB      184 FNFEGNLLPOLT 196

RESULT 12
US-09-191-136-16
; Sequence 16, Application US/09191136B
; Patent No. 6214581
; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
; APPLICANT: Lynch, Kevin J.
; APPLICANT: Burgard, Edward C.
; APPLICANT: Van Biesen, T.
; TITLE OF INVENTION: Nucleic Acids Encoding A Functional
; TITLE OF INVENTION: Human Purinoreceptor P2X3 and P2X6 And Methods Of Production
; TITLE OF INVENTION: And Use Thereof
; FILE REFERENCE: 6293-US.P1
; CURRENT APPLICATION NUMBER: US/09/191,136B
; CURRENT FILING DATE: 1998-11-13
; EARLIER APPLICATION NUMBER: US 09/008,526
; EARLIER FILING DATE: 1998-01-16
; EARLIER APPLICATION NUMBER: US 09/008,185
; EARLIER FILING DATE: 1998-01-16
; EARLIER APPLICATION NUMBER: US 60/071,298
; EARLIER FILING DATE: 1998-01-16
; EARLIER APPLICATION NUMBER: US 60/071,669
; EARLIER FILING DATE: 1998-01-16
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 16
; LENGTH: 397
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-191-136-16

Query Match      53.8%; Score 42; DB 3; Length 397;
Best Local Similarity 61.5%; Pred. No. 18;
Matches 8; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY      2 FNVENGATPOLT 14
DB      184 FNFEGNLLPOLT 196

RESULT 13
US-09-191-136-17
; Sequence 17, Application US/09191136B
; Patent No. 6214581
; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
; APPLICANT: Lynch, Kevin J.
; APPLICANT: Burgard, Edward C.
; APPLICANT: Van Biesen, T.
; TITLE OF INVENTION: Nucleic Acids Encoding A Functional
; TITLE OF INVENTION: Human Purinoreceptor P2X3 and P2X6 And Methods Of Production
; TITLE OF INVENTION: And Use Thereof
; FILE REFERENCE: 6293 US.P1
; CURRENT APPLICATION NUMBER: US/09/191,136B
; CURRENT FILING DATE: 1998-11-13
; EARLIER APPLICATION NUMBER: US 09/008,526
; EARLIER FILING DATE: 1998-01-16
; EARLIER APPLICATION NUMBER: US 09/008,185
; EARLIER FILING DATE: 1998-01-16
; EARLIER APPLICATION NUMBER: US 60/071,298
; EARLIER FILING DATE: 1998-01-16
; EARLIER APPLICATION NUMBER: US 60/071,669
; EARLIER FILING DATE: 1998-01-16
; NUMBER OF SEQ ID NOS: 32
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; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 17
; LENGTH: 397
; TYPE: PRT
; ORGANISM: Rattus rattus
US-09-191-136-17

Query Match      53.8%; Score 42; DB 3; Length 397;
Best Local Similarity 61.5%; Pred. No. 18;
Matches 8; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY      2 FNVENGATPOLT 14
DB      184 FNFEGNLLPOLT 196

RESULT 14
US-08-747-221B-14
; Sequence 14, Application US/08747221B
; Patent No. 6063610
; GENERAL INFORMATION:
; APPLICANT: Silver, Gary W.
; APPLICANT: Wisniewski, Nancy
; TITLE OF INVENTION: No. 6063610el Carboxylesterase Nucleic Acid
; TITLE OF INVENTION: Molecules, Proteins and Uses Thereof
; NUMBER OF SEQUENCES: 66
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Carol Talkington Verser, Ph.D.
; ADDRESSEE: Heska Corporation
; STREET: 1825 Sharp Point Drive
; CITY: Fort Collins
; STATE: Colorado
; COUNTRY: USA
; ZIP: 80525
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: WordPerfect for Windows, Version 7.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/747,221B
; FILING DATE: No. 6063610ember 12, 1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Verser, Carol Talkington
; REGISTRATION NUMBER: 37,459
; REFERENCE/DOCKET NUMBER: FC-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 970/493-7272
; TELEFAX: 970/484-9505
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 505 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-747-221B-14

Query Match      53.8%; Score 42; DB 3; Length 505;
Best Local Similarity 50.0%; Pred. No. 25;
Matches 6; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY      4 VENGATPOLT 15
DB      447 IKGNPTPEVTE 458

RESULT 15
US-09-005-051-14
; Sequence 14, Application US/09005051
; Patent No. 6291222
; GENERAL INFORMATION:
; APPLICANT: Silver, Gary W.
```

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/ APPLICANT: Wisniewski, Nancy
/ TITLE OF INVENTION: No. 6291222e1 Carboxylesterase Nucleic Acid
/ TITLE OF INVENTION: Molecules, Proteins and Uses Thereof
/ NUMBER OF SEQUENCES: 66
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Carol Talkington Verser, Ph.D.
/ ADDRESSEE: Heska Corporation
/ STREET: 1825 Sharp Point Drive
/ CITY: Fort Collins
/ STATE: Colorado
/ COUNTRY: USA
/ ZIP: 80525
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: Windows 95
/ SOFTWARE: WordPerfect for Windows, Version 7.0
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/005,051
/ FILING DATE:
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/747,221
/ FILING DATE: No. 6291222e1, 1996
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Verser, Carol Talkington
/ REGISTRATION NUMBER: 37,459
/ REFERENCE/DOCKET NUMBER: FC-1
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 970/493-7272
/ TELEFAX: 970/484-9505
/ INFORMATION FOR SEQ ID NO: 14:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 505 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ US-09-005-051-14

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```

Query Match      53.8%; Score 42; DB 3; Length 505;
Best Local Similarity 50.0%; Pred. No. 25;
Matches 6; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

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QY      4 VENGNAIPOLTK 15
Db      447 IXNGNPTPEVTE 458

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Search completed: April 19, 2004, 12:38:17
Job time : 14.6939 secs


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RESULT 2
US-09-847-208-68
; Sequence 68, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 68
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-68

Query Match      100.0%; Score 78; DB 10; Length 374;
Best Local Similarity 100.0%; Pred. No. 2e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AFVNGNATPQLTK 15
Db      347 AFVNGNATPQLTK 361

RESULT 3
US-09-847-208-109
; Sequence 109, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 109
; LENGTH: 367
; TYPE: PRT
; ORGANISM: Juniperus ashei (Ozark white cedar)
US-09-847-208-109

Query Match      85.9%; Score 67; DB 10; Length 367;
Best Local Similarity 86.7%; Pred. No. 0.0018;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 AFVNGNATPQLTK 15
Db      347 AFVNGNATPQLTK 361

RESULT 4
US-09-847-208-67
; Sequence 67, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 67
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
US-09-847-208-67

Query Match      80.8%; Score 63; DB 10; Length 346;
Best Local Similarity 80.0%; Pred. No. 0.0086;
Matches 12; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1 AFVNGNATPQLTK 15
Db      326 AFVNGNATPQLTK 340

RESULT 5
US-09-847-208-58
; Sequence 58, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 58
; LENGTH: 375
; TYPE: PRT
; ORGANISM: Chamaecyparis obtusa (Japanese cypress)
US-09-847-208-58

Query Match      79.5%; Score 62; DB 10; Length 375;
Best Local Similarity 80.0%; Pred. No. 0.014;
Matches 12; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1 AFVNGNATPQLTK 15
Db      347 AFVNGNATPQLTK 361

RESULT 6
US-10-354-240-81
; Sequence 81, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akimori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 81
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
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; NAME/KEY: MISC.FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 67
US-10-354-240-81

Query Match      67.9%; Score 53; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      6 NGNATPQLTK 15
Db      1 NGNATPQLTK 10

RESULT 7
US-10-354-240-79
; Sequence 79, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Daijiki, Kazuo
; APPLICANT: Iwama, Akiho
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; PRIOR FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 79
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC.FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 65
US-10-354-240-79

Query Match      66.7%; Score 52; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.022;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AFVNGNAT 10
Db      6 AFVNGNAT 15

RESULT 8
US-10-424-598-218827
; Sequence 218827, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 218827
; LENGTH: 239
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
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; OTHER INFORMATION: Clone ID: PAT_MRT3847_39629C.1.pep
US-10-424-599-218827

Query Match      55.1%; Score 43; DB 12; Length 239;
Best Local Similarity 66.7%; Pred. No. 20;
Matches 8; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY      1 AFVNGNATPQ 12
Db      153 AFNHQGNLIPQ 164

RESULT 9
US-10-369-493-10849
; Sequence 10849, Application US/10369493
; Publication No. US2003023675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 10849
; LENGTH: 601
; TYPE: PRT
; ORGANISM: Sphingomonas aromaticivorans
US-10-369-493-10849

Query Match      55.1%; Score 43; DB 15; Length 601;
Best Local Similarity 53.8%; Pred. No. 57;
Matches 7; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY      1 AFVNGNATPQL 13
Db      570 AFSIDNGMTFSL 582

RESULT 10
US-10-369-493-923
; Sequence 923, Application US/10369493
; Publication No. US2003023675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 923
; LENGTH: 601
; TYPE: PRT
; ORGANISM: Archaeoglobus fulgidus
US-10-369-493-923

Query Match      52.6%; Score 41; DB 15; Length 601;
Best Local Similarity 53.3%; Pred. No. 1.3e+02;
Matches 8; Conservative 2; Mismatches 5; Indels 0; Gaps 0;
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QY 1 AFVNGNATPQTK 15
Db 568 AFSLKGEITPTLKK 582

RESULT 11

US-10-282-122A-76535
; Sequence 76535, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 76535
; LENGTH: 661
; TYPE: PRT
; ORGANISM: Treponema pallidum
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (634)..(634)
; OTHER INFORMATION: X=any amino acid

US-10-282-122A-76535

QY 1 AFVNGNATPQTK 14
Db 543 AVVREGATPELT 556

RESULT 12

US-10-369-493-2463
; Sequence 2463, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493

; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 2463
; LENGTH: 378
; TYPE: PRT
; ORGANISM: Schizosaccharomyces pombe
US-10-369-493-2463

Query Match 51.3%; Score 40; DB 15; Length 378;

Best Local Similarity 40.0%; Pred. No. 1.1e+02;

Matches 6; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

QY 1 AFVNGNATPQTK 15

Db 247 AYNIEVGDIQPMVR 261

RESULT 13

US-10-321-802-4
; Sequence 4, Application US/10321802
; Publication No. US20030200563A1
; GENERAL INFORMATION:
; APPLICANT: Butler, Karlene H.
; APPLICANT: Cahoon, Edgar B.
; APPLICANT: Cahoon, Rebecca E.
; APPLICANT: Famodu, Omolayo O.
; APPLICANT: Hall, Sarah E.
; TITLE OF INVENTION: Phospholipid:diacylglycerol Acetyltransferases
; FILE REFERENCE: BSI486 US NA
; CURRENT APPLICATION NUMBER: US/10/321,802
; CURRENT FILING DATE: 2002-12-17
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 4
; LENGTH: 530
; TYPE: PRT
; ORGANISM: Calendula officinalis
US-10-321-802-4

Query Match 51.3%; Score 40; DB 15; Length 530;

Best Local Similarity 77.8%; Pred. No. 1.7e+02;

Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 5 ENGNATPQL 13

Db 280 ENGNSTPML 288

RESULT 14

US-10-369-493-6134
; Sequence 6134, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493

Query Match 51.3%; Score 40; DB 15; Length 530;

Best Local Similarity 77.8%; Pred. No. 1.7e+02;

Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 5 ENGNATPQL 13

Db 280 ENGNSTPML 288

; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 6134
; LENGTH: 783
; TYPE: PRT
; ORGANISM: Caenorhabditis elegans
US-10-369-493-6134

Query Match 51.3%; Score 40; DB 15; Length 783;
Best Local Similarity 61.5%; Pred. No. 2.6e+02;
Matches 8; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 APVNGNATPOL 13
Db 739 AFSANGLTPTL 751

RESULT 15
US-10-353-690-58
; Sequence 58, Application US/10353690
; Publication No. US20030215840A1
; GENERAL INFORMATION:
; APPLICANT: Logan, Thomas Joseph
; APPLICANT: Chun, Miyoung
; APPLICANT: Galvin, Katherine M.
; APPLICANT: Healy, Aileen
; APPLICANT: Acton, Susan L.
; APPLICANT: Donoghue, Mary
; APPLICANT: Stagliano, Nancy
; APPLICANT: Perodin, Jacqueline
; APPLICANT: Rodrigue-Way, Amelie
; TITLE OF INVENTION: Methods and compositions for treating
; TITLE OF INVENTION: cardiovascular disease using 1682, 6169, 6193, 7771, 14395,
; TITLE OF INVENTION: 29002, 33216, 43726, 69292, 26156, 32427, 2402, 7747, 1720,
; TITLE OF INVENTION: 9151, 60491, 1371, 7077, 33207, 1419, 18036, 16105, 38650,
; TITLE OF INVENTION: 14245, 58848, 1870, 25856, 32394, 3484, 345, 9252, 9135,
; TITLE OF INVENTION: 10532, 18610, 8165, 2448, 2445, 64624, 84237, 8912, 2868,
; TITLE OF INVENTION: 283, 2554, 9464, 17799, 26686, 43848, 32135, 14208, 2914,
; TITLE OF INVENTION: 51130, 19489, 21833, 2917, 59590, 15992, 2094, 2252, 3474,
; TITLE OF INVENTION: 9792, 15400, 1452 or 6585 molecules
; FILE REFERENCE: MPI02-018P10NM1M
; CURRENT APPLICATION NUMBER: US/10/353,690
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: 60/353,224
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: 60/364,529
; PRIOR FILING DATE: 2002-03-15
; PRIOR APPLICATION NUMBER: 60/373,861
; PRIOR FILING DATE: 2002-04-19
; PRIOR APPLICATION NUMBER: 60/376,287
; PRIOR FILING DATE: 2002-04-29
; PRIOR APPLICATION NUMBER: 60/388,080
; PRIOR FILING DATE: 2002-06-12
; PRIOR APPLICATION NUMBER: 60/390,971
; PRIOR FILING DATE: 2002-06-24
; PRIOR APPLICATION NUMBER: 60/394,130
; PRIOR FILING DATE: 2002-07-03
; PRIOR APPLICATION NUMBER: 60/394,797
; PRIOR FILING DATE: 2002-07-10
; PRIOR APPLICATION NUMBER: 60/404,904
; PRIOR FILING DATE: 2002-08-21
; PRIOR APPLICATION NUMBER: 60/405,450
; PRIOR FILING DATE: 2002-08-23
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 126
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 58
; LENGTH: 751
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-10-353-690-58

Query Match 51.3%; Score 40; DB 15; Length 791;
Best Local Similarity 58.3%; Pred. No. 2.6e+02;
Matches 7; Conservative 2; Mismatches 3; Indels 0; Gaps 0;
QY 2 FNVNGNATPOL 13
Db 465 FNLNNGGPTFGL 476

Search completed: April 19, 2004, 11:29:28
Job time : 68.3163 secs

US-08-467-023-51

Query Match 100.0%; Score 76; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.4e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YAIGSSNPTILSEG 15

Db 1 YAIGSSNPTILSEG 15

RESULT 2

US-08-467-023-64

Sequence 64, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffith, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From
TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 64:
SEQUENCE CHARACTERISTICS:
LENGTH: 90 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal

US-08-467-023-64

Query Match 100.0%; Score 76; DB 3; Length 90;
Best Local Similarity 100.0%; Pred. No. 7.9e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YAIGSSNPTILSEG 15

Db 61 YAIGSSNPTILSEG 75

RESULT 3

US-08-467-023-95

Sequence 95, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffith, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From
TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 95:
SEQUENCE CHARACTERISTICS:
LENGTH: 367 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein

US-08-467-023-95

Query Match 100.0%; Score 76; DB 3; Length 367;
Best Local Similarity 100.0%; Pred. No. 3.9e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YAIGSSNPTILSEG 15

Db 272 YAIGSSNPTILSEG 286

RESULT 4

US-08-467-023-2
Sequence 2, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:

APPLICANT: Griffith, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.

```

RESULT 5
US-08-290-448A-26
; Sequence 26, Application US/08230448A
; Patent No. 5676954
; GENERAL INFORMATION:
; APPLICANT: Rogers, Bruce
; APPLICANT: Klapper, David G.
; APPLICANT: Rafnar, Thorunn
; APPLICANT: Kuo, Mei-chang
; TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street, suite 510
; City: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,448A
; FILING DATE: August 15, 1994
; PRIOR APPLICATION DATA:

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; APPLICANT: Kuo, Mei-Chang
 ; TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
 ; NUMBER OF SEQUENCES: 93

Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 YAIGSSNPITLSEG 15
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Db 21 YAIGSSNPITLSEG 35

RESULT 12

US-08-175-069A-25
; Sequence 25, Application US/08175069A
; Patent No. 5776761
; GENERAL INFORMATION:
; APPLICANT: Rogers, Bruce
; APPLICANT: Klapper, David G.
; APPLICANT: Rafnar, Thorunn
; APPLICANT: Kuo, Mei-chang
; TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD, LLP
; STREET: 60 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08175,069A
; FILING DATE: December 29, 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/529,951
; FILING DATE: May 29, 1990
; APPLICATION NUMBER: US 07/325,365
; FILING DATE: March 17, 1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Amy E. Mandragouras
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: IMI-018DV
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 45 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: Internal
US-08-175-069A-25

Query Match 96.1%; Score 73; DB 1; Length 45;
Best Local Similarity 93.3%; Pred. No. 1.2e-05;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 YAIGSSNPITLSEG 15
|||||
Db 21 YAIGSSNPITLSEG 35

RESULT 13

US-08-461-939B-25
; Sequence 25, Application US/08461939B
; Patent No. 6335019
; GENERAL INFORMATION:
; APPLICANT: Rogers, Bruce
; APPLICANT: Klapper, David G.
; APPLICANT: Rafnar, Thorunn
; APPLICANT: Kuo, Mei-chang
; TITLE OF INVENTION: Methods For Treating Sensitivity To A

; TITLE OF INVENTION: Protein Allergen Using Peptides Which Include A T Cell Epitope;
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD, LLP
; STREET: 28 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08461,939B
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/464,000
; FILING DATE: 05-JUN-1995
; APPLICATION NUMBER: US 08/290,448
; FILING DATE: 15-AUG-1994
; APPLICATION NUMBER: US 07/529,951
; FILING DATE: 29-MAY-1990
; APPLICATION NUMBER: US 07/325,365
; FILING DATE: 17-MAR-1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Amy E. Mandragouras
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: IMI-018CNDV
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)742-4214
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 45 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: Internal
US-08-461-939B-25

Query Match 96.1%; Score 73; DB 4; Length 45;
Best Local Similarity 93.3%; Pred. No. 1.2e-05;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 YAIGSSNPITLSEG 15
|||||
Db 21 YAIGSSNPITLSEG 35

RESULT 14

US-08-464-000-25
; Sequence 25, Application US/08464000
; Patent No. 6335020
; GENERAL INFORMATION:
; APPLICANT: Rogers, Bruce
; APPLICANT: Klapper, David G.
; APPLICANT: Rafnar, Thorunn
; APPLICANT: Kuo, Mei-chang
; TITLE OF INVENTION: Allergenic Peptides from Ragweed Pollen
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD, LLP
; STREET: 60 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS

RESULT 15
US-08-290-448A-80
; Sequence 80, Application US/08290448A
; Patent No. 5676954
; GENERAL INFORMATION:
; APPLICANT: Rogers, Bruce
; APPLICANT: Klapper, David G.
; APPLICANT: Rafnar, Thorunn
; APPLICANT: Kuo, Mei-chang
; TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street, suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,448A
; FILING DATE: August 15, 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/529,951
; FILING DATE: May 29, 1990
; APPLICATION NUMBER: US 07/325,365
; FILING DATE: March 17, 1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Amy E. Mandragoras
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: IMI-018CN
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400

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OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:05 ; Search time 68.3163 Seconds
(without alignments)
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Title: US-09-308-027A-9
Perfect score: 76
Sequence: 1 YAIGSSNPILSEG 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

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- 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
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- 9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/2/pubpaa/US09E_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|----------------------|
| 1 | 76 | 100.0 | 15 | 14 | US-10-354-240-65 |
| 2 | 76 | 100.0 | 346 | 10 | US-09-847-208-67 |
| 3 | 76 | 100.0 | 367 | 10 | US-09-847-208-109 |
| 4 | 76 | 100.0 | 374 | 10 | US-09-847-208-68 |
| 5 | 76 | 100.0 | 375 | 10 | US-09-847-208-58 |
| 6 | 73 | 96.1 | 397 | 10 | US-09-847-208-17 |
| 7 | 70 | 92.1 | 255 | 12 | US-10-425-114-44652 |
| 8 | 70 | 92.1 | 271 | 12 | US-10-424-599-171297 |
| 9 | 67 | 88.2 | 131 | 12 | US-10-424-599-163549 |
| 10 | 67 | 88.2 | 443 | 12 | US-10-424-599-162863 |
| 11 | 65 | 85.5 | 263 | 12 | US-10-424-599-191786 |
| 12 | 65 | 85.5 | 396 | 10 | US-09-847-208-13 |
| 13 | 65 | 85.5 | 398 | 10 | US-09-847-208-14 |
| 14 | 63 | 82.9 | 247 | 12 | US-10-424-599-243902 |
| 15 | 63 | 82.9 | 404 | 12 | US-10-424-599-190695 |

ALIGNMENTS

RESULT 1

US-10-354-240-65
; Sequence 65, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 65
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 51
US-10-354-240-65

Query Match 100.0%; Score 76; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. NO. 4.7e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YAIGSSNPILSEG 15

DB 1 YAIGSSNPILSEG 15

Sequence 234547,
Sequence 16, Appl
Sequence 23482,
Sequence 15, Appl
Sequence 279564,
Sequence 61944, A
Sequence 149825,
Sequence 64, Appl
Sequence 244588,
Sequence 19, Appl
Sequence 2239, Ap
Sequence 66, Appl
Sequence 179761,
Sequence 241651,
Sequence 208220,
Sequence 18883, A
Sequence 18891, A
Sequence 9438, Ap
Sequence 75344, A
Sequence 17962, A
Sequence 65411, A
Sequence 217670,
Sequence 219035,
Sequence 199609,
Sequence 199610,
Sequence 166163,
Sequence 16885, A
Sequence 188,
Sequence 186, App
Sequence 12381, A

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RESULT 2
US-09-847-208-67
; Sequence 67, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 67
; LENGTH: 346
; TYPE: PRT
; ORGANISM: Cupressus arizonica
US-09-847-208-67
Query Match 100.0%; Score 76; DB 10; Length 346;
Best Local Similarity 100.0%; Pred. No. 0.00015;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YAIGSSNPITLSEG 15
Db 251 YAIGSSNPITLSEG 265

RESULT 3
US-09-847-208-109
; Sequence 109, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 109
; LENGTH: 367
; TYPE: PRT
; ORGANISM: Juniperus ashei (Ozark white cedar)
US-09-847-208-109
Query Match 100.0%; Score 76; DB 10; Length 367;
Best Local Similarity 100.0%; Pred. No. 0.00017;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YAIGSSNPITLSEG 15
Db 272 YAIGSSNPITLSEG 286

RESULT 4
US-09-847-208-68
; Sequence 68, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
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; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 68
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-68
Query Match 100.0%; Score 76; DB 10; Length 374;
Best Local Similarity 100.0%; Pred. No. 0.00017;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YAIGSSNPITLSEG 15
Db 272 YAIGSSNPITLSEG 286

RESULT 5
US-09-847-208-58
; Sequence 58, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 58
; LENGTH: 375
; TYPE: PRT
; ORGANISM: Chamaecyparis obtusa (Japanese cypress)
US-09-847-208-58
Query Match 100.0%; Score 76; DB 10; Length 375;
Best Local Similarity 100.0%; Pred. No. 0.00017;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YAIGSSNPITLSEG 15
Db 272 YAIGSSNPITLSEG 286

RESULT 6
US-09-847-208-17
; Sequence 17, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 397
; TYPE: PRT
; ORGANISM: Ambrosia artemisiifolia (Short ragweed)
US-09-847-208-17
Query Match 96.1%; Score 73; DB 10; Length 397;
Best Local Similarity 93.3%; Pred. No. 0.00058;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
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QY 1 YAIGGSSNPITLSEG 15
Db 296 YAIGSSNPITLSQG 310

RESULT 7

US-10-425-114-44652
; Sequence 44652, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 44652
; LENGTH: 255
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: 700903387_FLI.pgp
US-10-425-114-44652

Query Match 92.1%; Score 70; DB 12; Length 255;
Best Local Similarity 86.7%; Pred. No. 0.0011;
Matches 13; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 YAIGSSNPITLSEG 15
Db 153 YAIGSSKNPITLSEG 167

RESULT 8

US-10-424-599-171297
; Sequence 171297, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J
; APPLICANT: Kovalic, David K
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 171297
; LENGTH: 271
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_125697C.1.pgp
US-10-424-599-171297

Query Match 92.1%; Score 70; DB 12; Length 271;
Best Local Similarity 86.7%; Pred. No. 0.0012;
Matches 13; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 YAIGSSNPITLSEG 15
Db 169 YAIGSSKNPITLSEG 183

RESULT 9

US-10-424-599-163549

; Sequence 163549, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J
; APPLICANT: Kovalic, David K
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 163549
; LENGTH: 131
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)...(131)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_118703C.1.pgp
US-10-424-599-163549

Query Match 88.2%; Score 67; DB 12; Length 131;
Best Local Similarity 86.7%; Pred. No. 0.0018;
Matches 13; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 YAIGSSNPITLSEG 15
Db 31 YAIGSSGPITLSQG 45

RESULT 10

US-10-424-599-162863
; Sequence 162863, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J
; APPLICANT: Kovalic, David K
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 162863
; LENGTH: 443
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_118083C.1.pgp
US-10-424-599-162863

Query Match 88.2%; Score 67; DB 12; Length 443;
Best Local Similarity 86.7%; Pred. No. 0.0068;
Matches 13; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 YAIGSSNPITLSEG 15
Db 343 YAIGSSGPITLSQG 357

RESULT 11

US-10-424-599-191786
; Sequence 191786, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J
; APPLICANT: Kovalic, David K

```
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 191786
; LENGTH: 263
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_15202C.1.pep
US-10-424-599-191786

Query Match      85.5%; Score 65; DB 12; Length 263;
Best Local Similarity 80.0%; Pred. No. 0.0084;
Matches 12; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 YAIGSSNPTILSEG 15
    |||||:||||:|
Db 162 YAIGSKHPTILSEG 176

RESULT 12
US-09-847-208-13
; Sequence 13, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 396
; TYPE: PRT
; ORGANISM: Ambrosia artemisiifolia (Short ragweed)
US-09-847-208-13

Query Match      85.5%; Score 65; DB 10; Length 396;
Best Local Similarity 80.0%; Pred. No. 0.013;
Matches 12; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 YAIGSSNPTILSEG 15
    |||||:||||:|
Db 295 YAIGGSASPTILSQ 309

RESULT 13
US-09-847-208-14
; Sequence 14, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 398
; TYPE: PRT
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; ORGANISM: Ambrosia artemisiifolia (Short ragweed)
US-09-847-208-14

Query Match      85.5%; Score 65; DB 10; Length 398;
Best Local Similarity 86.7%; Pred. No. 0.013;
Matches 13; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 YAIGSSNPTILSEG 15
    |||||:||||:|
Db 297 YAIGGSASPTILSQ 311

RESULT 14
US-10-424-599-243902
; Sequence 143902, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 243902
; LENGTH: 247
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_62271C.1.pep
US-10-424-599-243902

Query Match      82.9%; Score 63; DB 12; Length 247;
Best Local Similarity 80.0%; Pred. No. 0.017;
Matches 12; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 YAIGSSNPTILSEG 15
    |||||:||||:|
Db 67 YAIGGSASPTILSQ 81

RESULT 15
US-10-424-599-190695
; Sequence 190695, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 190695
; LENGTH: 404
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_143217C.1.pep
US-10-424-599-190695

Query Match      82.9%; Score 63; DB 12; Length 404;
Best Local Similarity 80.0%; Pred. No. 0.029;
Matches 12; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 YAIGSSNPTILSEG 15
    |||||:||||:|
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Db 304 YAIGGSANPTINSQG 318

Search completed: April 19, 2004, 11:29:28
Job time : 68.3163 secs

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OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:39 ; Search time 14.6939 Seconds
(without alignments)
52.702 Million cell updates/sec

Title: US-09-308-027A-8

Perfect score: 78

Sequence: 1 KSMKVTAFNQFGPN 15

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA:*
1: /cgn2_6/prodata/2/iaa/5A_COMB.pep:*
2: /cgn2_6/prodata/2/iaa/5B_COMB.pep:*
3: /cgn2_6/prodata/2/iaa/6A_COMB.pep:*
4: /cgn2_6/prodata/2/iaa/6B_COMB.pep:*
5: /cgn2_6/prodata/2/iaa/PCITUS_COMB.pep:*
6: /cgn2_6/prodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|-------------------|
| 1 | 78 | 100.0 | 19 | 3 | US-08-467-023-227 |
| 2 | 78 | 100.0 | 19 | 3 | US-08-467-023-236 |
| 3 | 78 | 100.0 | 20 | 3 | US-08-467-023-47 |
| 4 | 78 | 100.0 | 20 | 3 | US-08-467-023-230 |
| 5 | 78 | 100.0 | 21 | 3 | US-08-467-023-231 |
| 6 | 78 | 100.0 | 21 | 3 | US-08-467-023-236 |
| 7 | 78 | 100.0 | 23 | 3 | US-08-467-023-233 |
| 8 | 78 | 100.0 | 24 | 3 | US-08-467-023-224 |
| 9 | 78 | 100.0 | 26 | 3 | US-08-467-023-83 |
| 10 | 78 | 100.0 | 26 | 3 | US-08-467-023-84 |
| 11 | 78 | 100.0 | 26 | 3 | US-08-467-023-86 |
| 12 | 78 | 100.0 | 26 | 3 | US-08-467-023-232 |
| 13 | 78 | 100.0 | 28 | 3 | US-08-467-023-81 |
| 14 | 78 | 100.0 | 28 | 3 | US-08-467-023-82 |
| 15 | 78 | 100.0 | 28 | 3 | US-08-467-023-85 |
| 16 | 78 | 100.0 | 28 | 3 | US-08-467-023-217 |
| 17 | 78 | 100.0 | 28 | 3 | US-08-467-023-219 |
| 18 | 78 | 100.0 | 28 | 3 | US-08-467-023-223 |
| 19 | 78 | 100.0 | 29 | 3 | US-08-467-023-220 |
| 20 | 78 | 100.0 | 29 | 3 | US-08-467-023-222 |
| 21 | 78 | 100.0 | 30 | 3 | US-08-467-023-79 |
| 22 | 78 | 100.0 | 30 | 3 | US-08-467-023-80 |
| 23 | 78 | 100.0 | 30 | 3 | US-08-467-023-221 |
| 24 | 78 | 100.0 | 36 | 3 | US-08-467-023-78 |
| 25 | 78 | 100.0 | 50 | 3 | US-08-467-023-69 |
| 26 | 78 | 100.0 | 90 | 3 | US-08-467-023-64 |
| 27 | 78 | 100.0 | 367 | 3 | US-08-467-023-95 |

28 78 100.0 374 3 US-08-467-023-2
29 75 96.2 26 3 US-08-467-023-228
30 75 96.2 26 3 US-08-467-023-229
31 74 94.9 19 3 US-08-467-023-121
32 74 94.9 19 3 US-08-467-023-122
33 74 94.9 23 3 US-08-467-023-225
34 73 93.6 28 3 US-08-467-023-218
35 71 91.0 21 3 US-08-467-023-123
36 70 89.7 19 3 US-08-467-023-126
37 70 89.7 21 3 US-08-467-023-124
38 70 89.7 21 3 US-08-467-023-125
39 70 89.7 21 3 US-08-467-023-127
40 69 88.5 17 3 US-08-467-023-257
41 67 85.9 370 3 US-08-467-023-97
42 65 83.3 13 3 US-08-467-023-235
43 65 83.3 15 3 US-08-467-023-255
44 65 83.3 15 3 US-08-467-023-256
45 65 83.3 16 3 US-08-467-023-248

ALIGNMENTS

RESULT 1

US-08-467-023-227
; Sequence 227, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian P.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 227:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 19 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal

US-08-467-023-227

Query Match 100.0%; Score 78; DB 3; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.5e-08;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KSMKVTVAFNQFGPN 15
Db 3 KSMKVTVAFNQFGPN 17

RESULT 2

US-08-467-023-236
; Sequence 236, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: June 6, 1995
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 236:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 19 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-236

Query Match 100.0%; Score 78; DB 3; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.5e-08;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KSMKVTVAFNQFGPN 15
Db 3 KSMKVTVAFNQFGPN 17

RESULT 3

US-08-467-023-47

; Sequence 47, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 47:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-47

Query Match 100.0%; Score 78; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.8e-08;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KSMKVTVAFNQFGPN 15
Db 1 KSMKVTVAFNQFGPN 15

RESULT 4

US-08-467-023-230
; Sequence 230, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;

APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From
TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 230:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: Peptide
FRAGMENT TYPE: Internal
US-08-467-023-230

Query Match 100.0%; Score 78; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.8e-08;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KSMKVTVAFNQFGPN 15
| | | | | | | | | | | | | | | | | | | | | |
Db 4 KSMKVTVAFNQFGPN 18

RESULT 5
US-08-467-023-231
Sequence 231, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffith, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From
TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 231:
SEQUENCE CHARACTERISTICS:
LENGTH: 21 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
US-08-467-023-231

Query Match 100.0%; Score 78; DB 3; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e-08;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KSMKVTVAFNQFGPN 15
| | | | | | | | | | | | | | | | | | | | | |
Db 4 KSMKVTVAFNQFGPN 18

RESULT 6
US-08-467-023-226
Sequence 226, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffith, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From
TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:

```

; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 226:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 23 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
; US-08-467-023-226

Query Match      100.0%; Score 78; DB 3; Length 23;
Best Local Similarity 100.0%; Pred. No. 5.6e-08;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KSMKVTVAFNQFGPN 15
Db 3 KSMKVTVAFNQFGPN 17

RESULT 7
US-08-467-023-233
; Sequence 233, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.;
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 233:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 23 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide

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```

; FRAGMENT TYPE: internal
; US-08-467-023-233

Query Match      100.0%; Score 78; DB 3; Length 23;
Best Local Similarity 100.0%; Pred. No. 5.6e-08;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KSMKVTVAFNQFGPN 15
Db 4 KSMKVTVAFNQFGPN 18

RESULT 8
US-08-467-023-224
; Sequence 224, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.;
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 224:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 24 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
; US-08-467-023-224

Query Match      100.0%; Score 78; DB 3; Length 24;
Best Local Similarity 100.0%; Pred. No. 5.9e-08;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KSMKVTVAFNQFGPN 15
Db 3 KSMKVTVAFNQFGPN 17

```

RESULT 9
US-08-467-023-83
; Sequence 83, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 83:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 26 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-83
Query Match 100.0%; Score 78; DB 3; Length 26;
Best Local Similarity 100.0%; Pred. No. 6.5e-08;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 KSMKVTVAFNQFGPN 15
Db 1 KSMKVTVAFNQFGPN 15

RESULT 10
US-08-467-023-84
; Sequence 84, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 84:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 26 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-83
Query Match 100.0%; Score 78; DB 3; Length 26;
Best Local Similarity 100.0%; Pred. No. 6.5e-08;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 KSMKVTVAFNQFGPN 15
Db 1 KSMKVTVAFNQFGPN 15

APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 84:
SEQUENCE CHARACTERISTICS:
LENGTH: 26 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
US-08-467-023-84
Query Match 100.0%; Score 78; DB 3; Length 26;
Best Local Similarity 100.0%; Pred. No. 6.5e-08;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 KSMKVTVAFNQFGPN 15
Db 1 KSMKVTVAFNQFGPN 15

RESULT 11
US-08-467-023-86
; Sequence 86, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 86:
SEQUENCE CHARACTERISTICS:
LENGTH: 26 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
US-08-467-023-86

Query Match 100.0%; Score 78; DB 3; Length 26;
Best Local Similarity 100.0%; Pred. No. 6.5e-08;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KSMKVTVAFNQGN 15
Db 1 KSMKVTVAFNQGN 15

RESULT 12
US-08-467-023-232
Sequence 232, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffith, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bord, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-wei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSES: Immunologic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994

ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 232:
SEQUENCE CHARACTERISTICS:
LENGTH: 26 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
US-08-467-023-232

Query Match 100.0%; Score 78; DB 3; Length 26;
Best Local Similarity 100.0%; Pred. No. 6.5e-08;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KSMKVTVAFNQGN 15
Db 1 KSMKVTVAFNQGN 15

RESULT 13
US-08-467-023-81
Sequence 81, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffith, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bord, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-wei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSES: Immunologic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 81:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 amino acids
TYPE: amino acid
TOPOLOGY: linear

```

; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-81

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Query Match 100.0%; Score 78; DB 3; Length 28;
Best Local Similarity 100.0%; Pred. No. 7e-08;
Matches 15; Conservative 0; Mismatches 0; Indels

QY 1 KSMKVTVAFNQFGPN 15
|||
Db 1 KSMKVTVAFNQFGPN 15

RESULT 14

US-08-467-023-82
 / Sequence 82, Application US/08467023
 / Patent No. 6090386
 / GENERAL INFORMATION:
 / APPLICANT: Griffith, Irwin J.;
 / APPLICANT: Pollock, Joanne;
 / APPLICANT: Bond, Julian F.;
 / APPLICANT: Garman, Richard D;
 / APPLICANT: Kuo, Mei-Chang;
 / APPLICANT: Yeung, Siu-mei H.;
 / APPLICANT: Brauer, Andrew;
 / APPLICANT: Exley, Mark A.;
 / APPLICANT: Powers, Steven P.
 / TITLE OF INVENTION: Allergenic Proteins And Peptides From
 / TITLE OF INVENTION: Japanese Cedar Pollen
 / NUMBER OF SEQUENCES: 261
 / CORRESPONDENCE ADDRESS:
 / ADDRESSEE: Immulogic Pharmaceutical Corporation, Inc.
 / STREET: 610 Lincoln St
 / CITY: Waltham
 / STATE: MA
 / COUNTRY: USA
 / ZIP: 02154

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CLASSIFICATION: 424
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/350,225
 FILING DATE: December 6, 1994
 ATTORNEY/AGENT INFORMATION:
 NAME: Jane E. Remillard
 REGISTRATION NUMBER: 38,872
 REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617) 227-7400
 TELEFAX: (617) 227-5941
 INFORMATION FOR SEQ ID NO: 82:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 28 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 FRAGMENT TYPE: internal
 US-08-467-023-82

Query Match 100.0%; Score 78; DB 3; Length 28;
Best Local Similarity 100.0%; Pred. No. 7e-08;
Matches 15; Conservative 0; Mismatches 0; Indels

Qy 1 KSMKVTVAFNQFGPN 15
|||

Db 1 KSMKVTVAFNQFGPN 15
|||

RESULT 15

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US-08-467-023-85
; Sequence 85, Application US/08467023
; Patent No. 6090366
;
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSES: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 85:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 28 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
;
US-08-467-023-85

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Query Match 100.0%; Score 78; DB 3; Length 28;
Best Local Similarity 100.0%; Pred. No. 7e-08;
Matches 15; Conservative 0; Mismatches 0; Indels

Qy 1 KSMKVTVAFNQFGPN 15
|||||

pb 1 KSMKVTVAFNQFGPN 15

Search completed: April 19, 2004, 12:38:17
Job time : 15.6939 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:39 ; Search time 14.6939 Seconds
(without alignments)

52.702 Million cell updates/sec

Title: US-09-308-027A-7

Perfect score: 86

Sequence: 1 LFFNHHKVMLLGHDD 15

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
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| 1 | 86 | 100.0 | 20 | 3 | US-08-467-023-45 |
| 2 | 86 | 100.0 | 50 | 3 | US-08-467-023-69 |
| 3 | 86 | 100.0 | 90 | 3 | US-08-467-023-64 |
| 4 | 86 | 100.0 | 374 | 3 | US-08-467-023-2 |
| 5 | 82 | 95.3 | 367 | 3 | US-08-467-023-95 |
| 6 | 58 | 67.4 | 370 | 3 | US-08-467-023-97 |
| 7 | 56 | 65.1 | 20 | 3 | US-08-467-023-44 |
| 8 | 49 | 57.0 | 318 | 4 | US-09-489-039A-13319 |
| 9 | 49 | 57.0 | 359 | 3 | US-09-198-955A-2 |
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| 19 | 42 | 48.8 | 1471 | 3 | US-08-755-587-188 |
| 20 | 41 | 47.7 | 40 | 3 | US-08-256-747C-77 |
| 21 | 41 | 47.7 | 257 | 3 | US-08-256-747C-76 |
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| 24 | 41 | 47.7 | 992 | 1 | US-08-482-847-1 |
| 25 | 41 | 47.7 | 1063 | 1 | US-08-093-453B-3 |
| 26 | 41 | 47.7 | 1063 | 1 | US-08-127-499A-8 |
| 27 | 41 | 47.7 | 1063 | 1 | US-08-482-847-8 |

ALIGNMENTS

RESULT 1

US-08-467-023-45

; Sequence 45, Application US/08457023

; Patent No. 6090386

; GENERAL INFORMATION:

; APPLICANT: Griffith, Irwin J.;

; APPLICANT: Pollock, Joanne;

; APPLICANT: Bond, Julian P.;

; APPLICANT: Garman, Richard D.;

; APPLICANT: Kuo, Mei-Chang;

; APPLICANT: Yeung, Siu-mei H.;

; APPLICANT: Brauer, Andrew;

; APPLICANT: Exley, Mark A.;

; APPLICANT: Powers, Steven P.;

; TITLE OF INVENTION: Allergenic Proteins And Peptides From

; TITLE OF INVENTION: Japanese Cedar Pollen

; NUMBER OF SEQUENCES: 261

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.

; STREET: 610 Lincoln St

; CITY: Waltham

; STATE: MA

; COUNTRY: USA

; ZIP: 02154

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/467,023

; FILING DATE: June 6, 1995

; CLASSIFICATION: 424

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/350,225

; FILING DATE: December 6, 1994

; ATTORNEY/AGENT INFORMATION:

; NAME: Jane E. Remillard

; REGISTRATION NUMBER: 38,872

; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (617) 227-7400

; TELEFAX: (617) 227-5941

; INFORMATION FOR SEQ ID NO: 45:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 20 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: peptide

; FRAGMENT TYPE: internal

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Sequence 14, Appl
Sequence 14, Appl
Sequence 10, Appl
Sequence 5753, Ap
Sequence 1, Appl
Sequence 10, Appl
Sequence 59, Appl
Sequence 59, Appl
Sequence 59, Appl
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Sequence 59, Appl
Sequence 74, Appl
Sequence 74, Appl
Sequence 74, Appl
Sequence 74, Appl
Sequence 29467, A

28 40 46.5 71 4 US-09-543-681A-4920
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44 39 45.3 398 4 US-08-464-000-74
45 39 45.3 510 4 US-09-252-991A-29467

US-08-467-023-45

Query Match 100.0%; Score 86; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6e-08;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LFFNHHKVMLLGHDD 15
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Db 1 LFFNHHKVMLLGHDD 15

RESULT 2

US-08-467-023-69
; Sequence 69, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 69:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 50 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal

US-08-467-023-69

Query Match 100.0%; Score 86; DB 3; Length 50;
Best Local Similarity 100.0%; Pred. No. 1.5e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LFFNHHKVMLLGHDD 15
| | | | | | | | | | | | | | | | | |
Db 1 LFFNHHKVMLLGHDD 15

RESULT 3

US-08-467-023-64

; Sequence 64, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 64:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 90 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal

US-08-467-023-64

Query Match 100.0%; Score 86; DB 3; Length 90;
Best Local Similarity 100.0%; Pred. No. 2.8e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LFFNHHKVMLLGHDD 15
| | | | | | | | | | | | | | | | | |
Db 1 LFFNHHKVMLLGHDD 15

RESULT 4

US-08-467-023-2
; Sequence 2, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;


```

; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 374 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-467-023-2

Query Match 100.0%; Score 86; DB 3; Length 374;
Best Local Similarity 100.0%; Pred. No. 1.3e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LFFHHKVMILGHDD 15
Db 212 LFFHHKVMILGHDD 226

RESULT 5
US-08-467-023-95
; Sequence 95, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian P.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 374 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-467-023-2

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; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 95:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 367 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-467-023-95

Query Match 95.3%; Score 82; DB 3; Length 367;
Best Local Similarity 100.0%; Pred. No. 5.8e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 FFHHKVMILGHDD 15
Db 213 FFHHKVMILGHDD 226

RESULT 6
US-08-467-023-97
; Sequence 97, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian P.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872

```

REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 227-7400

TELEFAX: (617) 227-5941

INFORMATION FOR SEQ ID NO: 97:

SEQUENCE CHARACTERISTICS:

LENGTH: 370 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-467-023-97

Query Match 67.4%; Score 58; DB 3; Length 370;
Best Local Similarity 71.4%; Pred. No. 0.055;
Matches 10; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 2 FFNHKKVMLGHDD 15

Db 213 FFDHVVMLGHSD 226

RESULT 7

US-08-467-023-44

Sequence 44, Application US/08467023

Patent No. 6090386

GENERAL INFORMATION:

APPLICANT: Griffith, Irwin J.;

APPLICANT: Pollock, Joanne;

APPLICANT: Bond, Julian F.;

APPLICANT: Garman, Richard D.;

APPLICANT: Kuo, Mei-Chang;

APPLICANT: Yeung, Siu-mei H.;

APPLICANT: Brauer, Andrew;

APPLICANT: Exley, Mark A.;

APPLICANT: Powers, Steven P.

TITLE OF INVENTION: Allergenic Proteins And Peptides From

TITLE OF INVENTION: Japanese Cedar Pollen

NUMBER OF SEQUENCES: 261

CORRESPONDENCE ADDRESS:

ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.

STREET: 610 Lincoln St

CITY: Waltham

STATE: MA

COUNTRY: USA

ZIP: 02154

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/467,023

FILING DATE: June 6, 1995

CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/350,225

FILING DATE: December 6, 1994

ATTORNEY/AGENT INFORMATION:

NAME: Jare E. Remillard

REGISTRATION NUMBER: 38,872

REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 227-7400

TELEFAX: (617) 227-5941

INFORMATION FOR SEQ ID NO: 44:

SEQUENCE CHARACTERISTICS:

LENGTH: 20 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: peptide

FRAGMENT TYPE: internal

US-08-467-023-44

Query Match 65.1%; Score 56; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.0052;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LFFNHHKVMYL 10

Db 11 LFFNHHKVMYL 20

RESULT 8

US-09-489-039A-13319

Sequence 13319, Application US/09489039A

Patent No. 6610836

GENERAL INFORMATION:

APPLICANT: Gary Breton et. al

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA

TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: 2709.2004001

CURRENT APPLICATION NUMBER: US/09/489,039A

CURRENT FILING DATE: 2000-01-27

PRIOR APPLICATION NUMBER: US 60/117,747

PRIOR FILING DATE: 1999-01-29

NUMBER OF SEQ ID NOS: 14342

SEQ ID NO 13319

LENGTH: 316

TYPE: PRT

ORGANISM: Klebsiella pneumoniae

US-09-489-039A-13319

Query Match 57.0%; Score 49; DB 4; Length 318;
Best Local Similarity 53.3%; Pred. No. 1.5;
Matches 8; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

Qy 1 LFFNHHKVMYLGHDD 15

Db 167 LAYHHHMLMLVEHDD 181

RESULT 9

US-09-198-955A-2

Sequence 2, Application US/09198955A

Patent No. 6187580

GENERAL INFORMATION:

APPLICANT: Andersen, Lene N.

APPLICANT: Schulein, Martin

APPLICANT: Lange, Niels E.

APPLICANT: Bjornvad, Mads E.

APPLICANT: Moller, Soren

APPLICANT: Glad, Sanne O. S.

APPLICANT: Kauppinen, Markus S.

APPLICANT: Schnorr, Kirk

APPLICANT: Kongsbak, Lars

TITLE OF INVENTION: No. 6187580el Pectate Lyases

FILE REFERENCE: 5378.200-US

CURRENT APPLICATION NUMBER: US/09/198,955A

CURRENT FILING DATE: 1998-11-24

PRIOR APPLICATION NUMBER: 1343/97

PRIOR FILING DATE: 1997-11-24

PRIOR APPLICATION NUMBER: 1344/97

PRIOR FILING DATE: 1997-11-24

PRIOR APPLICATION NUMBER: 60/067,249

PRIOR FILING DATE: 1997-12-02

PRIOR APPLICATION NUMBER: 60/067,240

PRIOR FILING DATE: 1997-12-02

PRIOR APPLICATION NUMBER: 09/073,684

PRIOR FILING DATE: 1998-05-06

PRIOR APPLICATION NUMBER: 09/184,217

PRIOR FILING DATE: 1998-11-02

NUMBER OF SEQ ID NOS: 32

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 2

LENGTH: 359

TYPE: PRT

```
; ORGANISM: B. agaradherens
US-09-198-955A-2

Query Match          57.0%; Score 49; DB 3; Length 359;
Best Local Similarity 64.3%; Pred. No. 1.7;
Matches 9; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY      2 FFNHHKVMLLGHDD 15
Db      205 FENHWKTMVLGHTD 218

RESULT 10
US-09-395-858A-2
; Sequence 2, Application US/09395858A
; Patent No. 6242014
; GENERAL INFORMATION:
; APPLICANT: Feng Xu
; TITLE OF INVENTION: Methods For Using Pectate Lyases In
; FILE REFERENCE: 5670.200-US
; CURRENT APPLICATION NUMBER: US/09/395,858A
; PRIOR FILING DATE: 1999-09-14
; PRIOR APPLICATION NUMBER: 09/156,298
; PRIOR FILING DATE: 1998-09-17
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 359
; TYPE: PRT
; ORGANISM: Bacillus agaradherens
US-09-395-858A-2

Query Match          57.0%; Score 49; DB 3; Length 359;
Best Local Similarity 64.3%; Pred. No. 1.7;
Matches 9; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY      2 FFNHHKVMLLGHDD 15
Db      205 FENHWKTMVLGHTD 218

RESULT 11
US-09-694-531-2
; Sequence 2, Application US/09694531
; Patent No. 6368843
; GENERAL INFORMATION:
; APPLICANT: Andersen, Lene N.
; APPLICANT: Schulein, Martin
; APPLICANT: Lange, Niels E.
; APPLICANT: Bjornvad, Mads E.
; APPLICANT: Moller, Soren
; APPLICANT: Glad, Sanne O. S.
; APPLICANT: Kauppinen, Markku S.
; APPLICANT: Schnorr, Kirk
; APPLICANT: Kongebak, Lars
; TITLE OF INVENTION: No. 6368843el Pectate Lyases
; FILE REFERENCE: 5378.200-US
; CURRENT APPLICATION NUMBER: US/09/694,531
; CURRENT FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 09/198,955
; PRIOR FILING DATE: 1998-11-24
; PRIOR APPLICATION NUMBER: 1343/97
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 1344/97
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/067,249
; PRIOR FILING DATE: 1997-12-02
; PRIOR APPLICATION NUMBER: 60/067,240
; PRIOR FILING DATE: 1997-12-02
; PRIOR APPLICATION NUMBER: 09/073,684
; PRIOR FILING DATE: 1998-05-06
; PRIOR APPLICATION NUMBER: 09/184,217
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 359
; TYPE: PRT
; ORGANISM: B. agaradherens
US-10-072-152-2

Query Match          57.0%; Score 49; DB 4; Length 359;
Best Local Similarity 64.3%; Pred. No. 1.7;
Matches 9; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY      2 FFNHHKVMLLGHDD 15
Db      205 FENHWKTMVLGHTD 218

RESULT 12
US-10-072-152-2
; Sequence 2, Application US/10072152
; Patent No. 6677147
; GENERAL INFORMATION:
; APPLICANT: Andersen, Lene N.
; APPLICANT: Schulein, Martin
; APPLICANT: Lange, Niels E.
; APPLICANT: Bjornvad, Mads E.
; APPLICANT: Moller, Soren
; APPLICANT: Glad, Sanne O. S.
; APPLICANT: Kauppinen, Markku S.
; APPLICANT: Schnorr, Kirk
; APPLICANT: Kongebak, Lars
; TITLE OF INVENTION: No. 6677147el Pectate Lyases
; FILE REFERENCE: 5378.200-US
; CURRENT APPLICATION NUMBER: US/10/072,152
; CURRENT FILING DATE: 2002-02-07
; PRIOR APPLICATION NUMBER: US/09/198,955
; PRIOR FILING DATE: 1998-11-24
; PRIOR APPLICATION NUMBER: 1343/97
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 1344/97
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/067,249
; PRIOR FILING DATE: 1997-12-02
; PRIOR APPLICATION NUMBER: 60/067,240
; PRIOR FILING DATE: 1997-12-02
; PRIOR APPLICATION NUMBER: 09/073,684
; PRIOR FILING DATE: 1998-05-06
; PRIOR APPLICATION NUMBER: 09/184,217
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 359
; TYPE: PRT
; ORGANISM: B. agaradherens
US-10-072-152-2

Query Match          57.0%; Score 49; DB 4; Length 359;
Best Local Similarity 64.3%; Pred. No. 1.7;
Matches 9; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY      2 FFNHHKVMLLGHDD 15
Db      205 FENHWKTMVLGHTD 218

RESULT 13
US-09-198-955A-6
; Sequence 6, Application US/09198955A
; Patent No. 6187580
; GENERAL INFORMATION:
; APPLICANT: Andersen, Lene N.
```

```
; PRIOR FILING DATE: 1998-11-02
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 359
; TYPE: PRT
; ORGANISM: B. agaradherens
US-09-694-531-2

Query Match          57.0%; Score 49; DB 4; Length 359;
Best Local Similarity 64.3%; Pred. No. 1.7;
Matches 9; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY      2 FFNHHKVMLLGHDD 15
Db      205 FENHWKTMVLGHTD 218

RESULT 10
US-10-072-152-2
; Sequence 2, Application US/10072152
; Patent No. 6677147
; GENERAL INFORMATION:
; APPLICANT: Andersen, Lene N.
; APPLICANT: Schulein, Martin
; APPLICANT: Lange, Niels E.
; APPLICANT: Bjornvad, Mads E.
; APPLICANT: Moller, Soren
; APPLICANT: Glad, Sanne O. S.
; APPLICANT: Kauppinen, Markku S.
; APPLICANT: Schnorr, Kirk
; APPLICANT: Kongebak, Lars
; TITLE OF INVENTION: No. 6677147el Pectate Lyases
; FILE REFERENCE: 5378.200-US
; CURRENT APPLICATION NUMBER: US/10/072,152
; CURRENT FILING DATE: 2002-02-07
; PRIOR APPLICATION NUMBER: US/09/198,955
; PRIOR FILING DATE: 1998-11-24
; PRIOR APPLICATION NUMBER: 1343/97
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 1344/97
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/067,249
; PRIOR FILING DATE: 1997-12-02
; PRIOR APPLICATION NUMBER: 60/067,240
; PRIOR FILING DATE: 1997-12-02
; PRIOR APPLICATION NUMBER: 09/073,684
; PRIOR FILING DATE: 1998-05-06
; PRIOR APPLICATION NUMBER: 09/184,217
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 359
; TYPE: PRT
; ORGANISM: B. agaradherens
US-10-072-152-2

Query Match          57.0%; Score 49; DB 4; Length 359;
Best Local Similarity 64.3%; Pred. No. 1.7;
Matches 9; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY      2 FFNHHKVMLLGHDD 15
Db      205 FENHWKTMVLGHTD 218

RESULT 11
US-09-198-955A-6
; Sequence 6, Application US/09198955A
; Patent No. 6187580
; GENERAL INFORMATION:
; APPLICANT: Andersen, Lene N.
```

```
; APPLICANT: Schulein, Martin
; APPLICANT: Lange, Niels E.
; APPLICANT: Bjornvad, Mads E.
; APPLICANT: Moller, Soren
; APPLICANT: Glad, Sanne O. S.
; APPLICANT: Kauppinen, Markus S.
; APPLICANT: Schnorr, Kirk
; APPLICANT: Kongsbak, Lars
; TITLE OF INVENTION: No. 6187580el Pectate Lyases
; FILE REFERENCE: 5378.200-US
; CURRENT APPLICATION NUMBER: US/09/198,955A
; CURRENT FILING DATE: 1998-11-24
; PRIOR APPLICATION NUMBER: 1343/97
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 1344/97
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/067,249
; PRIOR FILING DATE: 1997-12-02
; PRIOR APPLICATION NUMBER: 60/067,240
; PRIOR FILING DATE: 1997-12-02
; PRIOR APPLICATION NUMBER: 09/073,684
; PRIOR FILING DATE: 1998-05-06
; PRIOR APPLICATION NUMBER: 09/184,217
; PRIOR FILING DATE: 1998-11-02
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 509
; TYPE: PRT
; ORGANISM: Bacillus sp.
US-09-198-955A-6

Query Match 57.0%; Score 49; DB 3; Length 509;
Best Local Similarity 64.3%; Pred. No. 2.4;
Matches 9; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 2 FNNHKKVWLLGHDD 15
| | | | | | | | | | | | | | | | | | | | | |
Db 355 FENHWKTMVLVGHDT 368

RESULT 14
US-09-694-531-6
; Sequence 6, Application US/09694531
; Patent No. 6368843
; GENERAL INFORMATION:
; APPLICANT: Andersen, Lene N.
; APPLICANT: Schulein, Martin
; APPLICANT: Lange, Niels E.
; APPLICANT: Bjornvad, Mads E.
; APPLICANT: Moller, Soren
; APPLICANT: Glad, Sanne O. S.
; APPLICANT: Kauppinen, Markus S.
; APPLICANT: Schnorr, Kirk
; APPLICANT: Kongsbak, Lars
; TITLE OF INVENTION: No. 6368843el Pectate Lyases
; FILE REFERENCE: 5378.200-US
; CURRENT APPLICATION NUMBER: US/09/694,531
; CURRENT FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 09/198,955
; PRIOR FILING DATE: 1998-11-24
; PRIOR APPLICATION NUMBER: 1343/97
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 1344/97
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/067,249
; PRIOR FILING DATE: 1997-12-02
; PRIOR APPLICATION NUMBER: 60/067,240
; PRIOR FILING DATE: 1997-12-02
; PRIOR APPLICATION NUMBER: 09/073,684
; PRIOR FILING DATE: 1998-05-06
; PRIOR APPLICATION NUMBER: 09/184,217
; PRIOR FILING DATE: 1998-11-02
```

```
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 509
; TYPE: PRT
; ORGANISM: Bacillus sp.
US-09-694-531-6

Query Match 57.0%; Score 49; DB 4; Length 509;
Best Local Similarity 64.3%; Pred. No. 2.4;
Matches 9; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 2 FNNHKKVWLLGHDD 15
| | | | | | | | | | | | | | | | | | | | | |
Db 355 FENHWKTMVLVGHDT 368

RESULT 15
US-10-072-152-6
; Sequence 6, Application US/10072152
; Patent No. 6677147
; GENERAL INFORMATION:
; APPLICANT: Andersen, Lene N.
; APPLICANT: Schulein, Martin
; APPLICANT: Lange, Niels E.
; APPLICANT: Bjornvad, Mads E.
; APPLICANT: Moller, Soren
; APPLICANT: Glad, Sanne O. S.
; APPLICANT: Kauppinen, Markus S.
; APPLICANT: Schnorr, Kirk
; APPLICANT: Kongsbak, Lars
; TITLE OF INVENTION: No. 6677147el Pectate Lyases
; FILE REFERENCE: 5378.200-US
; CURRENT APPLICATION NUMBER: US/10/072,152
; CURRENT FILING DATE: 2002-02-07
; PRIOR APPLICATION NUMBER: US/09/198,955
; PRIOR FILING DATE: 1998-11-24
; PRIOR APPLICATION NUMBER: 1343/97
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 1344/97
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/067,249
; PRIOR FILING DATE: 1997-12-02
; PRIOR APPLICATION NUMBER: 60/067,240
; PRIOR FILING DATE: 1997-12-02
; PRIOR APPLICATION NUMBER: 09/073,684
; PRIOR FILING DATE: 1998-05-06
; PRIOR APPLICATION NUMBER: 09/184,217
; PRIOR FILING DATE: 1998-11-02
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 509
; TYPE: PRT
; ORGANISM: Bacillus sp.
US-10-072-152-6

Query Match 57.0%; Score 49; DB 4; Length 509;
Best Local Similarity 64.3%; Pred. No. 2.4;
Matches 9; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 2 FNNHKKVWLLGHDD 15
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Db 355 FENHWKTMVLVGHDT 368

Search completed: April 19, 2004, 12:38:16
Job time : 14.6939 secs
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:05 ; Search time 68.3163 Seconds
(without alignments)
60.529 Million cell updates/sec

Title: US-09-308-027A-8

Perfect score: 78

Sequence: 1 KSMKVTVAFNQFGPN 15

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- 1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
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- 10: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Query Match % | Score | Length | ID | Description |
|------------|---------------|-------|--------|----|----------------------|
| 1 | 78 | 100.0 | 15 | 14 | US-10-354-240-9 |
| 2 | 78 | 100.0 | 15 | 14 | US-10-354-240-57 |
| 3 | 78 | 100.0 | 15 | 14 | US-10-354-240-158 |
| 4 | 78 | 100.0 | 346 | 10 | US-09-847-208-67 |
| 5 | 78 | 100.0 | 367 | 10 | US-09-847-208-109 |
| 6 | 78 | 100.0 | 374 | 10 | US-09-847-208-68 |
| 7 | 78 | 100.0 | 375 | 10 | US-09-847-208-58 |
| 8 | 70 | 89.7 | 32 | 14 | US-10-354-240-10 |
| 9 | 69 | 88.5 | 80 | 14 | US-10-354-240-1 |
| 10 | 69 | 88.5 | 105 | 14 | US-10-354-240-2 |
| 11 | 69 | 88.5 | 134 | 14 | US-10-354-240-3 |
| 12 | 55 | 70.5 | 15 | 14 | US-10-354-240-58 |
| 13 | 52 | 66.7 | 227 | 12 | US-10-425-114-61944 |
| 14 | 52 | 66.7 | 378 | 12 | US-10-424-599-149825 |
| 15 | 51 | 65.4 | 404 | 12 | US-10-424-599-190695 |

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| Sequence 279664, | 51 | 65.4 | 409 | 12 | US-10-424-599-279664 |
| Sequence 162863, | 49 | 62.8 | 443 | 12 | US-10-424-599-162863 |
| Sequence 56, Appl | 48 | 61.5 | 15 | 14 | US-10-354-240-56 |
| Sequence 224393, | 48 | 61.5 | 128 | 12 | US-10-424-599-224393 |
| Sequence 243902, | 20 | 61.5 | 247 | 12 | US-10-424-599-243902 |
| Sequence 23982, | 48 | 61.5 | 435 | 12 | US-10-424-599-23982 |
| Sequence 44652, A | 21 | 60.3 | 47 | 60.3 | US-10-425-114-44652 |
| Sequence 171297, | 46 | 59.0 | 255 | 12 | US-10-424-599-171297 |
| Sequence 234547, | 23 | 46 | 59.0 | 271 | US-10-424-599-234547 |
| Sequence 191786, | 24 | 46 | 59.0 | 263 | US-10-424-599-191786 |
| Sequence 15, Appl | 43 | 55.1 | 263 | 12 | US-09-847-208-15 |
| Sequence 4015, Ap | 42 | 53.8 | 397 | 10 | US-10-369-493-4015 |
| Sequence 72142, A | 27 | 53.8 | 470 | 15 | US-10-282-122A-72142 |
| Sequence 47689, A | 28 | 52.6 | 298 | 12 | US-10-369-493-47689 |
| Sequence 5220, Ap | 41 | 52.6 | 584 | 12 | US-10-369-493-5220 |
| Sequence 5221, Ap | 30 | 52.6 | 2823 | 15 | US-10-369-493-5221 |
| Sequence 87, Appl | 31 | 51.3 | 191 | 9 | US-09-828-644-87 |
| Sequence 135, App | 32 | 51.3 | 264 | 10 | US-09-769-787-135 |
| Sequence 239010 | 40 | 51.3 | 313 | 12 | US-10-424-599-239010 |
| Sequence 2, Appli | 34 | 51.3 | 333 | 9 | US-09-754-105-2 |
| Sequence 2, Appli | 35 | 51.3 | 333 | 9 | US-09-754-105-2 |
| Sequence 10, Appl | 36 | 51.3 | 333 | 9 | US-09-754-105-2 |
| Sequence 4, Appli | 37 | 51.3 | 333 | 13 | US-10-021-121-10 |
| Sequence 63, Appl | 38 | 51.3 | 333 | 13 | US-10-138-787-4 |
| Sequence 8104, Ap | 39 | 51.3 | 333 | 15 | US-10-331-496A-63 |
| Sequence 8105, Ap | 40 | 51.3 | 677 | 12 | US-10-335-977-8104 |
| Sequence 8106, Ap | 40 | 51.3 | 677 | 12 | US-10-335-977-8105 |
| Sequence 146595, | 41 | 51.3 | 680 | 12 | US-10-335-977-8106 |
| Sequence 47903, A | 42 | 51.3 | 680 | 12 | US-10-335-977-8106 |
| Sequence 50122, A | 43 | 50.0 | 103 | 12 | US-10-424-599-146695 |
| | 44 | 50.0 | 266 | 12 | US-10-425-114-47903 |
| | 45 | 50.0 | 266 | 12 | US-10-425-114-50122 |

ALIGNMENTS

RESULT 1
US-10-354-240-9
; Sequence 9, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103DI
; CURRENT APPLICATION NUMBER: US/10354240
; CURRENT FILING DATE: 2003-01-23
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
US-10-354-240-9

Query Match 100.0%; Score 78; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.2e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KSMKVTVAFNQFGPN 15
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Db 1 KSMKVTVAFNQFGPN 15

RESULT 2
US-10-354-240-57
; Sequence 57, Application US/10354240

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; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; PRIOR FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 57
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 43
US-10-354-240-57

Query Match      100.0%; Score 78; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.2e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 KSMKVTVAFNQFGPN 15
Db      1 KSMKVTVAFNQFGPN 15

RESULT 3
US-10-354-240-158
; Sequence 158, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 158
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Figure 7, Row a
US-10-354-240-158

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Best Local Similarity 100.0%; Pred. No. 1.2e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 KSMKVTVAFNQFGPN 15
Db      1 KSMKVTVAFNQFGPN 15

US-09-847-208-67
; Sequence 67, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 67
; LENGTH: 346
; TYPE: PRT
; ORGANISM: Cupressus arizonica
US-09-847-208-67

Query Match      100.0%; Score 78; DB 10; Length 346;
Best Local Similarity 100.0%; Pred. No. 4.2e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 KSMKVTVAFNQFGPN 15
Db      211 KSMKVTVAFNQFGPN 225

RESULT 5
US-09-847-208-109
; Sequence 109, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 109
; LENGTH: 367
; TYPE: PRT
; ORGANISM: Juniperus ashei (Ozark white cedar)
US-09-847-208-109

Query Match      100.0%; Score 78; DB 10; Length 367;
Best Local Similarity 100.0%; Pred. No. 4.5e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 KSMKVTVAFNQFGPN 15
Db      232 KSMKVTVAFNQFGPN 246

RESULT 6
US-09-847-208-68
; Sequence 68, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
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; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 68
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-68

Query Match      100.0%; Score 78; DB 10; Length 374;
Best Local Similarity 100.0%; Pred. No. 4.6e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KSMKVTVAFNQFGPN 15
Db 232 KSMKVTVAFNQFGPN 246

RESULT 7
US-09-847-208-58
; Sequence 58, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daoheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 58
; LENGTH: 375
; TYPE: PRT
; ORGANISM: Chamaecyparis obtusa (Japanese cypress)
US-09-847-208-58

Query Match      100.0%; Score 78; DB 10; Length 375;
Best Local Similarity 100.0%; Pred. No. 4.6e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KSMKVTVAFNQFGPN 15
Db 232 KSMKVTVAFNQFGPN 246

RESULT 8
US-10-354-240-10
; Sequence 10, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 10
; LENGTH: 32
; TYPE: PRT
; ORGANISM: Cryptomeria japonica

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US-10-354-240-10
Query Match      89.7%; Score 70; DB 14; Length 32;
Best Local Similarity 86.7%; Pred. No. 8.6e-06;
Matches 13; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KSMKVTVAFNQFGPN 15
Db 18 REMKVTVAFNQFGPN 32

RESULT 9
US-10-354-240-1
; Sequence 1, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Kume, Toshio
; APPLICANT: Sone, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 80
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
US-10-354-240-1

Query Match      88.5%; Score 69; DB 14; Length 80;
Best Local Similarity 100.0%; Pred. No. 3.7e-05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 MKVTVAFNQFGPN 15
Db 1 MKVTVAFNQFGPN 13

RESULT 10
US-10-354-240-2
; Sequence 2, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
US-10-354-240-2

Query Match      88.5%; Score 69; DB 14; Length 105;

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Db 238 KMQVTIAFNHFG 250

RESULT 15

US-10-424-599-190695
; Sequence 190695, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 190695
; LENGTH: 404
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_143217C.1.pep
US-10-424-599-190695

Query Match 65.4%; Score 51; DB 12; Length 404;
Best Local Similarity 69.2%; Pred. No. 0.52;
Matches 9; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

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Db 264 KMQVTIAFNHFG 276

Search completed: April 19, 2004, 11:29:28
Job time : 69.3163 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:05 ; Search time 68.3163 Seconds
(without alignments)
60.529 Million cell updates/sec

Title: US-09-308-027A-7

Perfect score: 86

Sequence: 1 LFFNHHKVMLLGHDD 15

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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5: /cgn2_6/prodata/2/pubpaa/US07_NEW_PUB.pep.*
6: /cgn2_6/prodata/2/pubpaa/ECTUS_PUBCOMB.pep.*
7: /cgn2_6/prodata/2/pubpaa/US08_NEW_PUB.pep.*
8: /cgn2_6/prodata/2/pubpaa/US08_PUBCOMB.pep.*
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18: /cgn2_6/prodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|----------------------|
| 1 | 86 | 100.0 | 15 | 14 | US-10-354-240-53 |
| 2 | 86 | 100.0 | 374 | 10 | US-09-847-208-68 |
| 3 | 82 | 95.3 | 346 | 10 | US-09-847-208-67 |
| 4 | 82 | 95.3 | 367 | 10 | US-09-847-208-109 |
| 5 | 76 | 88.4 | 375 | 10 | US-09-847-208-58 |
| 6 | 56 | 65.1 | 15 | 14 | US-10-354-240-52 |
| 7 | 56 | 65.1 | 15 | 14 | US-10-354-240-54 |
| 8 | 56 | 65.1 | 247 | 12 | US-10-424-599-243902 |
| 9 | 53 | 61.6 | 209 | 12 | US-10-425-114-69765 |
| 10 | 52.5 | 61.0 | 128 | 12 | US-10-424-599-224393 |
| 11 | 52.5 | 61.0 | 227 | 12 | US-10-425-114-61944 |
| 12 | 52 | 60.5 | 378 | 12 | US-10-424-599-149825 |
| 13 | 50.5 | 58.7 | 404 | 12 | US-10-424-599-190695 |
| 14 | 50.5 | 58.7 | 409 | 12 | US-10-424-599-279664 |
| 15 | 50 | 58.1 | 212 | 12 | US-10-424-599-230315 |

| | | | | | | |
|----|------|------|------|----|----------------------|--------------------|
| 16 | 49 | 57.0 | 359 | 12 | US-10-655-433-2 | Sequence 2, Appl |
| 17 | 49 | 57.0 | 359 | 13 | US-10-072-152-2 | Sequence 6, Appl |
| 18 | 49 | 57.0 | 509 | 12 | US-10-655-433-6 | Sequence 2, Appl |
| 19 | 49 | 57.0 | 509 | 13 | US-10-072-152-6 | Sequence 6, Appl |
| 20 | 48 | 55.8 | 430 | 12 | US-10-424-599-234547 | Sequence 234547, A |
| 21 | 48 | 52.3 | 435 | 12 | US-10-225-068A-1066 | Sequence 1066, Ap |
| 22 | 45 | 52.3 | 435 | 15 | US-10-374-780A-2730 | Sequence 2730, Ap |
| 23 | 45 | 52.3 | 456 | 15 | US-10-369-493-18548 | Sequence 18548, A |
| 24 | 44 | 51.2 | 568 | 12 | US-10-425-114-63265 | Sequence 63265, A |
| 25 | 44 | 51.2 | 571 | 12 | US-10-425-114-60176 | Sequence 60176, A |
| 26 | 44 | 51.2 | 578 | 12 | US-10-425-114-55113 | Sequence 55113, A |
| 27 | 44 | 51.2 | 626 | 12 | US-10-425-114-63250 | Sequence 63250, A |
| 28 | 43 | 50.0 | 381 | 12 | US-10-335-977-7524 | Sequence 7524, Ap |
| 29 | 43 | 50.0 | 681 | 12 | US-10-335-977-7525 | Sequence 7525, Ap |
| 30 | 43 | 50.0 | 682 | 9 | US-09-815-242-11452 | Sequence 11452, A |
| 31 | 43 | 50.0 | 682 | 12 | US-10-282-122A-59009 | Sequence 59009, A |
| 32 | 42 | 48.8 | 42 | 12 | US-10-424-599-214200 | Sequence 214200, A |
| 33 | 42 | 48.8 | 169 | 12 | US-10-424-599-170451 | Sequence 170451, A |
| 34 | 42 | 48.8 | 184 | 12 | US-10-425-114-40338 | Sequence 40338, A |
| 35 | 42 | 48.8 | 448 | 15 | US-10-369-493-11678 | Sequence 11678, A |
| 36 | 42 | 48.8 | 448 | 15 | US-10-369-493-14693 | Sequence 14693, A |
| 37 | 42 | 48.8 | 463 | 15 | US-10-369-493-15175 | Sequence 15175, A |
| 38 | 41 | 47.7 | 313 | 12 | US-10-424-599-239010 | Sequence 239010, A |
| 39 | 41 | 47.7 | 455 | 15 | US-10-369-493-20630 | Sequence 20630, A |
| 40 | 40.5 | 47.1 | 1465 | 12 | US-10-282-122A-74767 | Sequence 74767, A |
| 41 | 40 | 46.5 | 44 | 12 | US-10-424-599-281567 | Sequence 281567, A |
| 42 | 40 | 46.5 | 52 | 12 | US-10-424-599-23934 | Sequence 23934, A |
| 43 | 40 | 46.5 | 185 | 12 | US-10-424-599-170452 | Sequence 170452, A |
| 44 | 40 | 46.5 | 176 | 12 | US-10-425-114-49027 | Sequence 49027, A |
| 45 | 40 | 46.5 | 179 | 14 | US-10-205-219-42 | Sequence 42, Appl |

ALIGNMENTS

RESULT 1

US-10-354-240-53
; Sequence 53, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akimori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE OF INVENTION: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-23
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 53
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)-(15)
; OTHER INFORMATION: Ceryl peptide, Figure 1, Row 39
US-10-354-240-53

Query Match 100.0%; Score 86; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 3.2e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LFFNHHKVMLLGHDD 15
Db 1 LFFNHHKVMLLGHDD 15

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RESULT 2
US-09-847-208-68
; Sequence 68, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 68
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-68

Query Match      100.0%; Score 86; DB 10; Length 374;
Best Local Similarity 100.0%; Pred. No. 9e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LFFNHHKVMLLGHDD 15
| | | | | | | | | | | | | | | |
Db 212 LFFNHHKVMLLGHDD 226

RESULT 3
US-09-847-208-67
; Sequence 67, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 67
; LENGTH: 346
; TYPE: PRT
; ORGANISM: Cupressus arizonica
US-09-847-208-67

Query Match      95.3%; Score 82; DB 10; Length 346;
Best Local Similarity 100.0%; Pred. No. 3.7e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 FFNHHKVMLLGHDD 15
| | | | | | | | | | | | | | |
Db 192 FFNHHKVMLLGHDD 205

RESULT 4
US-09-847-208-109
; Sequence 109, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
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; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 109
; LENGTH: 367
; TYPE: PRT
; ORGANISM: Juniperus ashei (Ozark white cedar)
US-09-847-208-109

Query Match      95.3%; Score 82; DB 10; Length 367;
Best Local Similarity 100.0%; Pred. No. 3.9e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 FFNHHKVMLLGHDD 15
| | | | | | | | | | | | | | |
Db 213 FFNHHKVMLLGHDD 226

RESULT 5
US-09-847-208-58
; Sequence 58, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 58
; LENGTH: 375
; TYPE: PRT
; ORGANISM: Chamaecyparis obtusa (Japanese cypress)
US-09-847-208-58

Query Match      88.4%; Score 76; DB 10; Length 375;
Best Local Similarity 92.9%; Pred. No. 0.00037;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 FFNHHKVMLLGHDD 15
| | | | | | | | | | | | | | |
Db 213 FFNHHKVMLLGHDD 226

RESULT 6
US-10-354-240-52
; Sequence 52, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Daijiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 52
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
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; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 38
US-10-354-240-52

Query Match      65.1%; Score 56; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.022;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LFFNHHKVML 10
   |||||
Db 6 LFFNHHKVML 15

RESULT 7
US-10-354-240-54
; Sequence 54, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akimori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 54
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 40
US-10-354-240-54

Query Match      65.1%; Score 56; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.022;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 HKVMLIGHDD 15
   |||||
Db 1 HKVMLIGHDD 10

RESULT 8
US-10-424-599-243902
; Sequence 243902, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 243902
; LENGTH: 247
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
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; OTHER INFORMATION: Clone ID: PAT_MRT3847_62271C.1.pep
US-10-424-599-243902

Query Match      65.1%; Score 56; DB 12; Length 247;
Best Local Similarity 71.4%; Pred. No. 0.4;
Matches 10; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 2 FFNHHKVMLIGHDD 15
   |||||
Db 8 FAHHDEVMLIGHDD 21

RESULT 9
US-10-425-114-69765
; Sequence 69765, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B/US/10/425,114
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 69765
; LENGTH: 209
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: 700574433_FLI.pep
US-10-425-114-69765

Query Match      61.6%; Score 53; DB 12; Length 209;
Best Local Similarity 57.1%; Pred. No. 1;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 LFFNHHKVMLIGHDD 14
   |||||
Db 85 LFLNPHRIQLGHD 98

RESULT 10
US-10-424-599-224393
; Sequence 224393, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 224393
; LENGTH: 128
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_44655C.1.pep
US-10-424-599-224393

Query Match      61.0%; Score 52.5; DB 12; Length 128;
Best Local Similarity 66.7%; Pred. No. 0.74;
Matches 10; Conservative 2; Mismatches 2; Indels 1; Gaps 1;
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QY 2 FFNHH-KVMLLGHDD 15
:|||||:
Db 93 YFTHNEVMLLGHSD 107

RESULT 11

US-10-425-114-61944
; Sequence 61944, Application US/10425114
; Publication No. US20040034889A1
; GENERAL INFORMATION:

; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei

; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement

; FILE REFERENCE: 38-21(53223)B

; CURRENT APPLICATION NUMBER: US/10/425,114

; CURRENT FILING DATE: 2003-04-28

; NUMBER OF SEQ ID NOS: 73128

; SEQ ID NO 61944

; LENGTH: 227

; TYPE: PRT

; ORGANISM: Zea mays

; FEATURE:

; OTHER INFORMATION: Clone ID: UC-ZMFLB73247D08_FLI.pep

US-10-425-114-61944

Query Match 61.0%; Score 52.5; DB 12; Length 227;
Best Local Similarity 66.7%; Pred. No. 1.3;
Matches 10; Conservative 2; Mismatches 2; Indels 1; Gaps 1;

QY 2 FFNHH-KVMLLGHDD 15
:|||||:
Db 67 YFTHNEVMLLGHSD 81

RESULT 12

US-10-424-599-149825
; Sequence 149825, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:

; APPLICANT: La Rosa Thomas J
; APPLICANT: Zhou Yihua
; APPLICANT: Kovalic David K
; APPLICANT: Cao Yongwei

; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement

; FILE REFERENCE: 38-21(53223)B

; CURRENT APPLICATION NUMBER: US/10/424,599

; CURRENT FILING DATE: 2003-04-28

; NUMBER OF SEQ ID NOS: 285684

; SEQ ID NO 149825

; LENGTH: 378

; TYPE: PRT

; ORGANISM: Glycine max

; FEATURE:

; NAME/KEY: unsure

; LOCATION: (1)...(378)

; OTHER INFORMATION: unsure at all Xaa locations

; FEATURE:

; OTHER INFORMATION: Clone ID: PAT_MRT3847_106313C.1.pep

US-10-424-599-149825

Query Match 60.5%; Score 52; DB 12; Length 378;
Best Local Similarity 75.0%; Pred. No. 2.8;
Matches 9; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 4 NHHKVMLLGHDD 15
:|||||:
Db 221 HNKVMLLGHSD 232

RESULT 13

US-10-424-599-190695
; Sequence 190695, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:

; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei

; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement

; FILE REFERENCE: 38-21(53223)B

; CURRENT APPLICATION NUMBER: US/10/424,599

; CURRENT FILING DATE: 2003-04-28

; NUMBER OF SEQ ID NOS: 285684

; SEQ ID NO 190695

; LENGTH: 404

; TYPE: PRT

; ORGANISM: Glycine max

; FEATURE:

; OTHER INFORMATION: Clone ID: PAT_MRT3847_143217C.1.pep

US-10-424-599-190695

Query Match 58.7%; Score 50.5; DB 12; Length 404;
Best Local Similarity 66.7%; Pred. No. 5.1;
Matches 10; Conservative 1; Mismatches 3; Indels 1; Gaps 1;

QY 2 FFNHH-KVMLLGHDD 15
:|||||:
Db 244 YMTHDKVMLLGHSD 258

RESULT 14

US-10-424-599-279664
; Sequence 279664, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:

; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei

; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement

; FILE REFERENCE: 38-21(53223)B

; CURRENT APPLICATION NUMBER: US/10/424,599

; CURRENT FILING DATE: 2003-04-28

; NUMBER OF SEQ ID NOS: 285684

; SEQ ID NO 279664

; LENGTH: 409

; TYPE: PRT

; ORGANISM: Glycine max

; FEATURE:

; NAME/KEY: unsure

; LOCATION: (1)...(409)

; OTHER INFORMATION: unsure at all Xaa locations

; FEATURE:

; OTHER INFORMATION: Clone ID: PAT_MRT3847_94559C.1.pep

US-10-424-599-279664

Query Match 58.7%; Score 50.5; DB 12; Length 409;
Best Local Similarity 66.7%; Pred. No. 5.2;
Matches 10; Conservative 1; Mismatches 3; Indels 1; Gaps 1;

QY 2 FFNHH-KVMLLGHDD 15
:|||||:
Db 249 YMTHDKVMLLGHSD 263

RESULT 15

US-10-424-599-230315
; Sequence 230315, Application US/10424599

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; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 230315
; LENGTH: 212
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(212)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_49999C.1.pep
US-10-424-599-230315

Query Match      58.1%; Score 50; DB 12; Length 212;
Best Local Similarity 57.1%; Pred. No. 3.2;
Matches      8; Conservative      2; Mismatches      4; Indels      0; Gaps      0;

QY      2 FENHKVMLLGHDD 15
      | : | | | : | | |
Db      183 FDDHKXSLVGHSD 196

Search completed: April 19, 2004, 11:29:27
Job time : 68.3163 secs
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OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:39 ; Search time 14.6939 Seconds
(without alignments)
52.702 Million cell updates/sec

Title: US-09-308-027A-6

Perfect score: 81

Sequence: 1 DALTLRTATNIWIDH 15

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- Issued Patents AA.*
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- 3: /cgn2_6/ptodata/2/iaa/6A_COMB.pap.*
- 4: /cgn2_6/ptodata/2/iaa/6B_COMB.pap.*
- 5: /cgn2_6/ptodata/2/iaa/PCITUS_COMB.pap.*
- 6: /cgn2_6/ptodata/2/iaa/backfiles1.pap.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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| 2 | 81 | 100.0 | 30 | 3 | US-08-467-023-68 |
| 3 | 81 | 100.0 | 30 | 3 | US-08-467-023-75 |
| 4 | 81 | 100.0 | 50 | 3 | US-08-467-023-63 |
| 5 | 81 | 100.0 | 374 | 3 | US-08-467-023-2 |
| 6 | 61 | 75.3 | 367 | 3 | US-08-467-023-95 |
| 7 | 59 | 72.8 | 370 | 3 | US-08-467-023-97 |
| 8 | 58 | 71.6 | 16 | 3 | US-08-467-023-212 |
| 9 | 58 | 71.6 | 18 | 3 | US-08-467-023-210 |
| 10 | 58 | 71.6 | 18 | 3 | US-08-467-023-211 |
| 11 | 58 | 71.6 | 20 | 3 | US-08-467-023-203 |
| 12 | 58 | 71.6 | 21 | 3 | US-08-467-023-119 |
| 13 | 58 | 71.6 | 21 | 3 | US-08-467-023-208 |
| 14 | 58 | 71.6 | 21 | 3 | US-08-467-023-209 |
| 15 | 58 | 71.6 | 22 | 3 | US-08-467-023-76 |
| 16 | 58 | 71.6 | 23 | 3 | US-08-467-023-204 |
| 17 | 58 | 71.6 | 23 | 3 | US-08-467-023-206 |
| 18 | 58 | 71.6 | 23 | 3 | US-08-467-023-207 |
| 19 | 58 | 71.6 | 24 | 3 | US-08-467-023-77 |
| 20 | 58 | 71.6 | 24 | 3 | US-08-467-023-120 |
| 21 | 58 | 71.6 | 25 | 3 | US-08-467-023-205 |
| 22 | 58 | 71.6 | 26 | 3 | US-08-467-023-202 |
| 23 | 53 | 65.4 | 41 | 2 | US-08-773-008-5 |
| 24 | 51 | 63.0 | 379 | 2 | US-08-887-365-36 |
| 25 | 50 | 61.7 | 373 | 1 | US-07-723-002C-2 |
| 26 | 50 | 61.7 | 399 | 4 | US-09-910-505B-17 |
| 27 | 48 | 59.3 | 20 | 3 | US-08-467-023-40 |

| | | | | | | |
|----|----|------|-----|---|-------------------|-------------------|
| 28 | 47 | 58.0 | 387 | 1 | US-08-290-448A-72 | Sequence 72, Appl |
| 29 | 47 | 58.0 | 387 | 1 | US-08-290-448A-72 | Sequence 72, Appl |
| 30 | 47 | 58.0 | 387 | 1 | US-08-175-069A-72 | Sequence 72, Appl |
| 31 | 47 | 58.0 | 387 | 4 | US-08-461-939B-72 | Sequence 72, Appl |
| 32 | 47 | 58.0 | 387 | 4 | US-08-464-000-72 | Sequence 72, Appl |
| 33 | 46 | 56.8 | 379 | 1 | US-07-723-002C-4 | Sequence 4, Appl |
| 34 | 45 | 55.6 | 391 | 1 | US-08-290-448A-59 | Sequence 59, Appl |
| 35 | 45 | 55.6 | 391 | 1 | US-08-290-448A-59 | Sequence 59, Appl |
| 36 | 45 | 55.6 | 391 | 1 | US-08-175-069A-59 | Sequence 59, Appl |
| 37 | 45 | 55.6 | 391 | 4 | US-08-461-939B-59 | Sequence 59, Appl |
| 38 | 45 | 55.6 | 391 | 4 | US-08-464-000-59 | Sequence 59, Appl |
| 39 | 45 | 55.6 | 398 | 1 | US-08-290-448A-74 | Sequence 74, Appl |
| 40 | 45 | 55.6 | 398 | 1 | US-08-290-448A-74 | Sequence 74, Appl |
| 41 | 45 | 55.6 | 398 | 1 | US-08-175-069A-74 | Sequence 74, Appl |
| 42 | 45 | 55.6 | 398 | 4 | US-08-461-939B-74 | Sequence 74, Appl |
| 43 | 45 | 55.6 | 398 | 4 | US-08-464-000-74 | Sequence 6, Appl |
| 44 | 44 | 54.3 | 379 | 1 | US-07-723-002C-6 | Sequence 80, Appl |
| 45 | 44 | 54.3 | 388 | 1 | US-08-290-448A-80 | |

ALIGNMENTS

RESULT 1
US-08-467-023-41
; Sequence 41, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Renillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 41:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal

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US-08-467-023-41
Query Match      100.0%; Score 81; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.9e-08;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DALTLRTATNIWIDH 15
Db 1 DALTLRTATNIWIDH 15

RESULT 2
US-08-467-023-68
; Sequence 68, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 68:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-68

Query Match      100.0%; Score 81; DB 3; Length 30;
Best Local Similarity 100.0%; Pred. No. 8e-08;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DALTLRTATNIWIDH 15
Db 1 DALTLRTATNIWIDH 15

RESULT 3
US-08-467-023-75
; Sequence 75, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 75:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-75

Query Match      100.0%; Score 81; DB 3; Length 30;
Best Local Similarity 100.0%; Pred. No. 8e-08;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DALTLRTATNIWIDH 15
Db 1 DALTLRTATNIWIDH 15

RESULT 4
US-08-467-023-63
; Sequence 63, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
```


APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 63:
SEQUENCE CHARACTERISTICS:
LENGTH: 50 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: internal
US-08-467-023-63

Query Match 100.0%; Score 81; DB 3; Length 50;
Best Local Similarity 100.0%; Pred.No. 1.5e-07; Indels 0;
Matches 15; Conservative 0; Mismatches 0; Gaps 0;

QY 1 DALTLRTATNIWDH 15
| | | | | | | | | | | | | | | | | |
Db 21 DALTLRTATNIWDH 35

RESULT 5
US-08-467-023-2
Sequence 2, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffith, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 374 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-467-023-2

Query Match 100.0%; Score 81; DB 3; Length 374;
Best Local Similarity 100.0%; Pred.No. 1.6e-06; Indels 0;
Matches 15; Conservative 0; Mismatches 0; Gaps 0;

QY 1 DALTLRTATNIWDH 15
| | | | | | | | | | | | | | | | | |
Db 172 DALTLRTATNIWDH 186

RESULT 6
US-08-467-023-95
Sequence 95, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffith, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard

REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 95:
SEQUENCE CHARACTERISTICS:
LENGTH: 367 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-467-023-95

Query Match 75.3%; Score 61; DB 3; Length 367;
Best Local Similarity 66.7%; Pred. No. 0.0059;
Matches 10; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 1 DALTLRTATNIWDH 15
DB 172 DAITMRHVTNAWDH 186

RESULT 7
US-08-467-023-97
Sequence 97, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffith, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From
TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 97:
SEQUENCE CHARACTERISTICS:
LENGTH: 370 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-467-023-97

Query Match 72.8%; Score 59; DB 3; Length 370;
Best Local Similarity 60.0%; Pred. No. 0.014;
Matches 9; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1 DALTLRTATNIWDH 15
DB 172 DAFTVTRSEHIWDH 186

RESULT 8
US-08-467-023-212
Sequence 212, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffith, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From
TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 212:
SEQUENCE CHARACTERISTICS:
LENGTH: 16 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
US-08-467-023-212

Query Match 71.6%; Score 58; DB 3; Length 16;
Best Local Similarity 100.0%; Pred. No. 0.00048;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 RTATNIWDH 15
DB 2 RTATNIWDH 11

RESULT 9
US-08-467-023-210
Sequence 210, Application US/08467023

```
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; NUMBER OF SEQUENCES: 261
; TITLE OF INVENTION: Japanese Cedar Pollen
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 210:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
; US-08-467-023-210

Query Match 71.6%; Score 58; DB 3; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.00055;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 RTATNIWDH 15
DB 4 RTATNIWDH 13

RESULT 10
US-08-467-023-211
; Sequence 211, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
```

```
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 211:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
; US-08-467-023-211

Query Match 71.6%; Score 58; DB 3; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.00055;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 RTATNIWDH 15
DB 4 RTATNIWDH 13

RESULT 11
US-08-467-023-203
; Sequence 203, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
```

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 203:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
US-08-467-023-203

Query Match 71.6%; Score 58; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.00062;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 RTATNIWIDH 15
| | | | | | | | | | | | | | | | | |
DB 2 RTATNIWIDH 11

RESULT 12
US-08-467-023-119 Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffith, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From
Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872

REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 119:
SEQUENCE CHARACTERISTICS:
LENGTH: 21 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-467-023-119

Query Match 71.6%; Score 58; DB 3; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.00066;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 RTATNIWIDH 15
| | | | | | | | | | | | | | | | | |
DB 3 RTATNIWIDH 12

RESULT 13
US-08-467-023-208 Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffith, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From
Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 208:
SEQUENCE CHARACTERISTICS:
LENGTH: 21 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
US-08-467-023-208

Query Match 71.6%; Score 58; DB 3; Length 21;
 Best Local Similarity 100.0%; Pred. No. 0.00066;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 RTATNIWIDH 15
 |||||
 Db 4 RTATNIWIDH 13
 |||||

RESULT 14

US-08-467-023-209
 ; Sequence 209, Application US/08467023
 ; Patent No. 6090386
 ; GENERAL INFORMATION:
 ; APPLICANT: Griffith, Irwin J.;
 ; APPLICANT: Pollock, Joanne;
 ; APPLICANT: Bond, Julian F.;
 ; APPLICANT: Garman, Richard D;
 ; APPLICANT: Kuo, Mei-Chang;
 ; APPLICANT: Yeung, Siu-mei H.;
 ; APPLICANT: Brauer, Andrew;
 ; APPLICANT: Exley, Mark A.;
 ; APPLICANT: Powers, Steven P.
 ; TITLE OF INVENTION: Allergenic Proteins And Peptides From
 ; TITLE OF INVENTION: Japanese Cedar Pollen
 ; NUMBER OF SEQUENCES: 261
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
 ; STREET: 610 Lincoln St
 ; CITY: Waltham
 ; STATE: MA
 ; COUNTRY: USA
 ; ZIP: 02154
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.25
 ; CURRENT APPLICATION NUMBER: US/08/467,023
 ; FILING DATE: June 6, 1995
 ; CLASSIFICATION: 424
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/350,225
 ; FILING DATE: December 6, 1994
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Jane E. Remillard
 ; REGISTRATION NUMBER: 38,872
 ; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
 ; TELEPHONE: (617) 227-7400
 ; TELEFAX: (617) 227-5941
 ; INFORMATION FOR SEQ ID NO: 209:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 21 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: peptide
 ; FRAGMENT TYPE: internal
 ; US-08-467-023-209

Query Match 71.6%; Score 58; DB 3; Length 21;
 Best Local Similarity 100.0%; Pred. No. 0.00066;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 RTATNIWIDH 15
 |||||
 Db 4 RTATNIWIDH 13
 |||||

RESULT 15

US-08-467-023-76
 ; Sequence 76, Application US/08467023
 ; Patent No. 6090386
 ; GENERAL INFORMATION:
 ; APPLICANT: Griffith, Irwin J.;
 ; APPLICANT: Pollock, Joanne;
 ; APPLICANT: Bond, Julian F.;
 ; APPLICANT: Garman, Richard D;
 ; APPLICANT: Kuo, Mei-Chang;
 ; APPLICANT: Yeung, Siu-mei H.;
 ; APPLICANT: Brauer, Andrew;
 ; APPLICANT: Exley, Mark A.;
 ; APPLICANT: Powers, Steven P.
 ; TITLE OF INVENTION: Allergenic Proteins And Peptides From
 ; TITLE OF INVENTION: Japanese Cedar Pollen
 ; NUMBER OF SEQUENCES: 261
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
 ; STREET: 610 Lincoln St
 ; CITY: Waltham
 ; STATE: MA
 ; COUNTRY: USA
 ; ZIP: 02154
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.25
 ; CURRENT APPLICATION NUMBER: US/08/467,023
 ; FILING DATE: June 6, 1995
 ; CLASSIFICATION: 424
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/350,225
 ; FILING DATE: December 6, 1994
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Jane E. Remillard
 ; REGISTRATION NUMBER: 38,872
 ; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
 ; TELEPHONE: (617) 227-7400
 ; TELEFAX: (617) 227-5941
 ; INFORMATION FOR SEQ ID NO: 76:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 22 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: peptide
 ; FRAGMENT TYPE: internal
 ; US-08-467-023-76

Query Match 71.6%; Score 58; DB 3; Length 22;
 Best Local Similarity 100.0%; Pred. No. 0.0007;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 RTATNIWIDH 15
 |||||
 Db 1 RTATNIWIDH 10
 |||||

Search completed: April 19, 2004, 12:38:16
 Job time : 14.6939 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:05 ; Search time 68.3163 Seconds

(without alignments)
60.529 Million cell updates/sec

Title: US-09-308-027A-6

Perfect score: 81

Sequence: 1 DALTLRTATNIWIDH 15

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubpaa/US05_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep.*
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- 8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|----------------------|
| 1 | 81 | 100.0 | 15 | 14 | US-10-354-240-45 |
| 2 | 81 | 100.0 | 17 | 10 | US-09-847-208-68 |
| 3 | 63 | 77.8 | 346 | 10 | US-09-847-208-67 |
| 4 | 63 | 77.8 | 367 | 10 | US-09-847-208-109 |
| 5 | 62 | 76.5 | 375 | 10 | US-09-847-208-58 |
| 6 | 58 | 71.6 | 15 | 14 | US-10-354-240-46 |
| 7 | 55 | 67.9 | 212 | 12 | US-10-424-599-230315 |
| 8 | 55 | 67.9 | 443 | 12 | US-10-424-599-162863 |
| 9 | 50 | 61.7 | 399 | 14 | US-10-403-192-17 |
| 10 | 50 | 61.7 | 420 | 14 | US-10-326-185-87 |
| 11 | 48 | 59.3 | 15 | 14 | US-10-354-240-44 |
| 12 | 47 | 58.0 | 263 | 12 | US-10-424-599-191786 |
| 13 | 47 | 58.0 | 396 | 10 | US-09-847-208-13 |
| 14 | 46 | 56.8 | 255 | 12 | US-10-425-114-44652 |
| 15 | 46 | 56.8 | 271 | 12 | US-10-424-599-171297 |

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|----|------|------|------|----|----------------------|-------------------|
| 16 | 45 | 55.6 | 398 | 10 | US-09-847-208-14 | Sequence 14, Appl |
| 17 | 45 | 55.6 | 435 | 12 | US-10-424-599-239482 | Sequence 239482, |
| 18 | 45 | 55.6 | 450 | 12 | US-10-424-599-234547 | Sequence 234547, |
| 19 | 44 | 54.3 | 397 | 10 | US-09-847-208-17 | Sequence 17, Appl |
| 20 | 44 | 54.3 | 443 | 14 | US-10-156-761-13902 | Sequence 13902, A |
| 21 | 43 | 53.1 | 19 | 9 | US-09-864-761-41072 | Sequence 41072, A |
| 22 | 43 | 53.1 | 352 | 10 | US-09-847-208-16 | Sequence 16, Appl |
| 23 | 42 | 51.9 | 128 | 12 | US-10-424-599-224393 | Sequence 224393, |
| 24 | 41.5 | 51.2 | 335 | 9 | US-09-789-266-1 | Sequence 1, Appl |
| 25 | 41.5 | 51.2 | 335 | 12 | US-10-655-433-10 | Sequence 10, Appl |
| 26 | 41.5 | 51.2 | 335 | 13 | US-10-072-152-10 | Sequence 10, Appl |
| 27 | 41.5 | 51.2 | 416 | 14 | US-10-156-761-12568 | Sequence 12568, A |
| 28 | 41 | 50.6 | 282 | 12 | US-10-107-431-1115 | Sequence 115, App |
| 29 | 41 | 50.6 | 352 | 14 | US-10-403-192-18 | Sequence 18, Appl |
| 30 | 41 | 50.6 | 357 | 10 | US-09-847-208-15 | Sequence 15, Appl |
| 31 | 41 | 50.6 | 1395 | 9 | US-09-808-602-67 | Sequence 67, Appl |
| 32 | 41 | 50.6 | 1395 | 10 | US-09-800-198-56 | Sequence 56, Appl |
| 33 | 41 | 50.6 | 1395 | 14 | US-10-289-776-15 | Sequence 15, Appl |
| 34 | 40 | 49.4 | 130 | 12 | US-10-424-599-144549 | Sequence 144549, |
| 35 | 40 | 49.4 | 312 | 10 | US-09-915-043-46 | Sequence 46, Appl |
| 36 | 40 | 49.4 | 312 | 10 | US-09-779-679-35 | Sequence 35, Appl |
| 37 | 40 | 49.4 | 312 | 10 | US-09-907-218-53 | Sequence 53, Appl |
| 38 | 40 | 49.4 | 312 | 10 | US-09-907-218-54 | Sequence 54, Appl |
| 39 | 40 | 49.4 | 313 | 12 | US-10-424-599-239010 | Sequence 239010, |
| 40 | 40 | 49.4 | 340 | 10 | US-09-834-231-1 | Sequence 1, Appl |
| 41 | 40 | 49.4 | 367 | 10 | US-09-834-231-5 | Sequence 5, Appl |
| 42 | 40 | 49.4 | 369 | 10 | US-09-834-231-7 | Sequence 7, Appl |
| 43 | 40 | 49.4 | 369 | 10 | US-09-834-231-9 | Sequence 9, Appl |
| 44 | 40 | 49.4 | 383 | 10 | US-09-834-231-3 | Sequence 3, Appl |
| 45 | 40 | 49.4 | 398 | 15 | US-10-369-493-100 | Sequence 100, App |

ALIGNMENTS

RESULT 1
US-10-354-240-45
; Sequence 45, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 45
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: CRY1 peptide, Figure 1, Row 31
US-10-354-240-45

Query Match 100.0%; Score 81; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 5.6e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DALTLRTATNIWIDH 15

Db 1 DALTLRTATNIWIDH 15

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RESULT 2
US-09-847-208-68
; Sequence 68, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 68
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-68

Query Match 100.0%; Score 81; DB 10; Length 374;
Best Local Similarity 100.0%; Pred. No. 1.5e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DALTLRTATNIWIDH 15
Db 172 DALTLRTATNIWIDH 186

RESULT 3
US-09-847-208-67
; Sequence 67, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 67
; LENGTH: 346
; TYPE: PRT
; ORGANISM: Cupressus arizonica
US-09-847-208-67

Query Match 77.8%; Score 63; DB 10; Length 346;
Best Local Similarity 66.7%; Pred. No. 0.016;
Matches 10; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DALTLRTATNIWIDH 15
Db 151 DALTLRTATNIWIDH 165

RESULT 4
US-09-847-208-109
; Sequence 109, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
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; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 109
; LENGTH: 367
; TYPE: PRT
; ORGANISM: Juniperus ashei (Ozark white cedar)
US-09-847-208-109

Query Match 77.8%; Score 63; DB 10; Length 367;
Best Local Similarity 66.7%; Pred. No. 0.017;
Matches 10; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DALTLRTATNIWIDH 15
Db 172 DALTLRTATNIWIDH 186

RESULT 5
US-09-847-208-58
; Sequence 58, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 58
; LENGTH: 375
; TYPE: PRT
; ORGANISM: Chamaecyparis obtusa (Japanese cypress)
US-09-847-208-58

Query Match 76.5%; Score 62; DB 10; Length 375;
Best Local Similarity 60.0%; Pred. No. 0.026;
Matches 9; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DALTLRTATNIWIDH 15
Db 172 DALTLRTATNIWIDH 186

RESULT 6
US-10-354-240-46
; Sequence 46, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Daijiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 46
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
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; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Ceryl peptide, Figure 1, Row 32
US-10-354-240-46

Query Match      71.6%; Score 58; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.0046;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      6 RTATNIWIDH 15
       |||||
Db      1 RTATNIWIDH 10

RESULT 7
US-10-424-599-230315
; Sequence 230315, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 230315
; LENGTH: 212
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(212)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_49999C.1.pap
US-10-424-599-230315

Query Match      67.9%; Score 55; DB 12; Length 212;
Best Local Similarity 46.7%; Pred. No. 0.22;
Matches 7; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY      1 DALTLRTATNIWIDH 15
       ||: : : : :
Db     135 DAIGIQKSTNVWDH 149

RESULT 8
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; Sequence 162863, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 162863
; LENGTH: 443
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_118083C.1.pap
US-10-424-599-162863
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Query Match      67.9%; Score 55; DB 12; Length 443;
Best Local Similarity 60.0%; Pred. No. 0.47;
Matches 9; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY      1 DALTLRTATNIWIDH 15
       ||: : : : :
Db     243 DAISIFGSTNIWIDH 257

RESULT 9
US-10-403-192-17
; Sequence 17, Application US/10403192
; Publication No. US20030175940A1
; GENERAL INFORMATION:
; APPLICANT: Schroder Glad, Sanne O.
; APPLICANT: Andersen, Carsten
; APPLICANT: Schulein, Martin
; APPLICANT: Frandsen, Torben P.
; TITLE OF INVENTION: CELL-WALL DEGRADING ENZYME VARIANTS
; FILE REFERENCE: 10044.200-US
; CURRENT APPLICATION NUMBER: US/10/403,192
; CURRENT FILING DATE: 2003-03-31
; PRIOR APPLICATION NUMBER: US/09/910,505B
; PRIOR FILING DATE: 2001-07-19
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 17
; LENGTH: 399
; TYPE: PRT
; ORGANISM: Bacillus subtilis
; OTHER INFORMATION:
US-10-403-192-17

Query Match      61.7%; Score 50; DB 14; Length 399;
Best Local Similarity 53.3%; Pred. No. 3;
Matches 8; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY      1 DALTLRTATNIWIDH 15
       ||: : : : :
Db     184 DNITGGGTHIWDH 198

RESULT 10
US-10-326-185-87
; Sequence 87, Application US/10326185
; Publication No. US20030175902A1
; GENERAL INFORMATION:
; APPLICANT: Sloma, Alan
; APPLICANT: Behr, Regine
; APPLICANT: Widner, William
; APPLICANT: Tang, Maria
; APPLICANT: Sternberg, David
; APPLICANT: Brown, Stephen
; TITLE OF INVENTION: Methods for Producing Hyaluronan In a Recombinant Host Cell
; FILE REFERENCE: 10241.200-US
; CURRENT APPLICATION NUMBER: US/10/326,185
; CURRENT FILING DATE: 2002-12-20
; PRIOR APPLICATION NUMBER: US 60/342,644
; PRIOR FILING DATE: 2001-12-21
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 87
; LENGTH: 420
; TYPE: PRT
; ORGANISM: Bacillus subtilis
; OTHER INFORMATION:
US-10-326-185-87

Query Match      61.7%; Score 50; DB 14; Length 420;
Best Local Similarity 53.3%; Pred. No. 3.2;
Matches 8; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY      1 DALTLRTATNIWIDH 15
       ||: : : : :
Db     205 DNITGGGTHIWDH 219
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RESULT 11
US-10-354-240-44
; Sequence 44, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-10301
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 44
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 30
US-10-354-240-44

Query Match          59.3%; Score 48; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.23;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DALTLRTATN 10
Db 6 DALTLRTATN 15

RESULT 12
US-10-424-599-191786
; Sequence 191786, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 191786
; LENGTH: 263
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_15202C.1.pep
US-10-424-599-191786

Query Match          58.0%; Score 47; DB 12; Length 263;
Best Local Similarity 46.7%; Pred. No. 6.4;
Matches 7; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DALTLRTATN 15
Db 62 DGISIFGSSNWIDH 76

RESULT 13
US-09-847-208-13
; Sequence 13, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 396
; TYPE: PRT
; ORGANISM: Ambrosia artemisiifolia (Short ragweed)
US-09-847-208-13

Query Match          58.0%; Score 47; DB 10; Length 396;
Best Local Similarity 46.7%; Pred. No. 9.7;
Matches 7; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DALTLRTATN 15
Db 195 DAISISGSSQIWDH 209

RESULT 14
US-10-425-114-44652
; Sequence 44652, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 44652
; LENGTH: 255
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: 700903387_FLI.pep
US-10-425-114-44652

Query Match          56.8%; Score 46; DB 12; Length 255;
Best Local Similarity 40.0%; Pred. No. 9.2;
Matches 6; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DALTLRTATN 15
Db 53 DGISIFGSSNWIDH 67

RESULT 15
US-10-424-599-171297
; Sequence 171297, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
```

; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE OF INVENTION: Plants and Uses Thereof for Plant Improvement

; FILE REFERENCE: 38-21(53223)B

; CURRENT APPLICATION NUMBER: US/10/424,599

; CURRENT FILING DATE: 2003-04-28

; NUMBER OF SEQ ID NOS: 285684

; SEQ ID NO 171297

; LENGTH: 271

; TYPE: PRT

; ORGANISM: Glycine max

; FEATURE:

; OTHER INFORMATION: Clone ID: PAT_MRT3847_125697C.1.pep

; US-10-424-599-171297

Query Match 56.8%; Score 46; DB 12; Length 271;
Best Local Similarity 40.0%; Pred. No. 9.8;
Matches 6; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

OY 1 DALTLRTATNIWIDH 15

Db 69 DGISIFGSSNWIDH 83

Search completed: April 19, 2004, 11:29:27
Job time : 68.3163 secs

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OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:39 ; Search time 14.6939 Seconds
(without alignments)
52.702 Million cell updates/sec

Title: US-09-308-027A-5

Perfect score: 80

Sequence: 1 HPQDGLTRTATN 15

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*

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2: /cgn2_6/prodata/2/1aa/5B_COMB.pep:*

3: /cgn2_6/prodata/2/1aa/5A_COMB.pep:*

4: /cgn2_6/prodata/2/1aa/5B_COMB.pep:*

5: /cgn2_6/prodata/2/1aa/PCTUS_COMB.pep:*

6: /cgn2_6/prodata/2/1aa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|----------------------|
| 1 | 80 | 100.0 | 20 | 3 | US-08-467-023-40 |
| 2 | 80 | 100.0 | 50 | 3 | US-08-467-023-63 |
| 3 | 80 | 100.0 | 374 | 3 | US-08-467-023-2 |
| 4 | 59 | 73.8 | 370 | 3 | US-08-467-023-97 |
| 5 | 57 | 71.2 | 367 | 3 | US-08-467-023-95 |
| 6 | 48 | 60.0 | 20 | 3 | US-08-467-023-41 |
| 7 | 48 | 60.0 | 30 | 3 | US-08-467-023-68 |
| 8 | 48 | 60.0 | 30 | 3 | US-08-467-023-75 |
| 9 | 43 | 53.8 | 764 | 4 | US-09-252-991A-21733 |
| 10 | 41 | 51.2 | 145 | 4 | US-09-543-681A-6503 |
| 11 | 41 | 51.2 | 773 | 1 | US-08-019-870-1 |
| 12 | 41 | 51.2 | 773 | 1 | US-08-019-870-6 |
| 13 | 41 | 51.2 | 774 | 1 | US-07-747-901A-3 |
| 14 | 41 | 51.2 | 774 | 1 | US-07-935-312-3 |
| 15 | 41 | 51.2 | 774 | 1 | US-08-019-870-3 |
| 16 | 41 | 51.2 | 774 | 1 | US-08-019-870-5 |
| 17 | 41 | 51.2 | 774 | 1 | US-08-019-870-8 |
| 18 | 41 | 51.2 | 774 | 1 | US-08-019-870-11 |
| 19 | 41 | 51.2 | 774 | 1 | US-08-314-309A-21 |
| 20 | 41 | 51.2 | 774 | 1 | US-08-633-760-44 |
| 21 | 41 | 51.2 | 774 | 1 | US-08-633-760-46 |
| 22 | 41 | 51.2 | 774 | 1 | US-08-633-760-48 |
| 23 | 41 | 51.2 | 774 | 1 | US-08-633-760-50 |
| 24 | 41 | 51.2 | 774 | 1 | US-08-633-760-52 |
| 25 | 40.5 | 50.6 | 270 | 4 | US-09-134-000C-4517 |
| 26 | 40 | 50.0 | 947 | 2 | US-08-887-518-2 |
| 27 | 40 | 50.0 | 947 | 2 | US-09-023-321-2 |

| | | | | | | |
|----|----|------|------|---|----------------------|--------------------|
| 28 | 40 | 50.0 | 947 | 2 | US-09-032-475-2 | Sequence 2, Appli |
| 29 | 40 | 50.0 | 947 | 3 | US-09-257-703-1 | Sequence 1, Appli |
| 30 | 40 | 50.0 | 947 | 4 | US-08-871-889A-1 | Sequence 1, Appli |
| 31 | 38 | 47.5 | 316 | 4 | US-09-232-991A-32693 | Sequence 32693, A |
| 32 | 37 | 46.2 | 28 | 2 | US-08-765-815-7 | Sequence 7, Appli |
| 33 | 37 | 46.2 | 28 | 3 | US-08-859-738A-7 | Sequence 21839, A |
| 34 | 37 | 46.2 | 120 | 4 | US-09-252-991A-21839 | Sequence 7, Appli |
| 35 | 37 | 46.2 | 246 | 4 | US-09-252-991A-18916 | Sequence 27611, A |
| 36 | 37 | 46.2 | 311 | 4 | US-09-252-991A-18916 | Sequence 18916, A |
| 37 | 37 | 46.2 | 425 | 4 | US-09-252-991A-26326 | Sequence 26326, A |
| 38 | 37 | 46.2 | 452 | 4 | US-09-463-712C-8 | Sequence 8, Appli |
| 39 | 37 | 46.2 | 452 | 4 | US-09-865-415-6 | Sequence 6, Appli |
| 40 | 37 | 46.2 | 520 | 4 | US-09-527-073-2 | Sequence 2, Appli |
| 41 | 37 | 46.2 | 650 | 4 | US-09-252-991A-24093 | Sequence 24093, A |
| 42 | 37 | 46.2 | 796 | 4 | US-09-389-956-2 | Sequence 2, Appli |
| 43 | 37 | 46.2 | 6396 | 4 | US-09-410-551B-72 | Sequence 72, Appli |
| 44 | 36 | 45.0 | 84 | 3 | US-09-404-671-6 | Sequence 6, Appli |
| 45 | 36 | 45.0 | 234 | 4 | US-09-489-039A-13353 | Sequence 13353, A |

ALIGNMENTS

RESULT 1

US-08-467-023-40
; Sequence 40, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 40:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal


```

; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 97:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 370 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-467-023-97

Query Match 73.8%; Score 59; DB 3; Length 370;
Best Local Similarity 76.9%; Pred. No. 0.01;
Matches 10; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 HPQDGDALTURTA 13
DB 167 HPQDGDALTURTS 179

RESULT 5
US-08-467-023-95
; Sequence 95, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 97:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 370 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-467-023-97

Query Match 71.2%; Score 57; DB 3; Length 367;
Best Local Similarity 66.7%; Pred. No. 0.023;
Matches 10; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 1 HPQDGDALTURTATN 15
DB 167 HAQDGDALTURHVTN 181

RESULT 6
US-08-467-023-41
; Sequence 41, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 95:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 367 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-467-023-95
```

TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 41:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
US-08-467-023-41

Query Match 60.0%; Score 48; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.029; 0; Indels 0;
Matches 10; Conservative 0; Mismatches 0; Gaps 0;

QY 6 DALTLRTATN 15
DB 1 DALTLRTATN 10

RESULT 7

US-08-467-023-68
; Sequence 68, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immulogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 68:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-68

Query Match 60.0%; Score 48; DB 3; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.048;
Matches 10; Conservative 0; Mismatches 0; Indels 0;
Gaps 0;

QY 6 DALTLRTATN 15
DB 1 DALTLRTATN 10

RESULT 8

US-08-467-023-75
; Sequence 75, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immulogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 75:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-75

Query Match 60.0%; Score 48; DB 3; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.048;
Matches 10; Conservative 0; Mismatches 0; Indels 0;
Gaps 0;

QY 6 DALTLRTATN 15
DB 1 DALTLRTATN 10

RESULT 9

US-09-252-991A-21733
; Sequence 21733, Application US/09252991A

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/ Patent No. 6551795
/ GENERAL INFORMATION:
/ APPLICANT: Marc J. Rubenfield et al.
/ TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
/ FILE REFERENCE: 107196.136
/ CURRENT APPLICATION NUMBER: US/09/252,991A
/ CURRENT FILING DATE: 1999-02-18
/ PRIOR APPLICATION NUMBER: US 60/074,788
/ PRIOR FILING DATE: 1998-02-18
/ PRIOR APPLICATION NUMBER: US 60/094,190
/ PRIOR FILING DATE: 1998-07-27
/ NUMBER OF SEQ ID NOS: 33142
/ SEQ ID NO 21733
/ LENGTH: 764
/ TYPE: PRT
/ ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-21733

Query Match 53.8%; Score 43; DB 4; Length 764;
Best Local Similarity 80.0%; Pred. No. 19;
Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 HPQDGDALTL 10
DB 183 HPGDGDALAL 192

RESULT 10
US-09-543-681A-6503
/ Sequence 6503, Application US/09543681A
/ Patent No. 6605709
/ GENERAL INFORMATION:
/ APPLICANT: GARY BRETON
/ TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
/ FILE REFERENCE: 2709.1002-001
/ CURRENT APPLICATION NUMBER: US/09/543,681A
/ CURRENT FILING DATE: 2000-04-05
/ PRIOR APPLICATION NUMBER: US 60/128,706
/ PRIOR FILING DATE: 1999-04-09
/ NUMBER OF SEQ ID NOS: 8344
/ SEQ ID NO 6503
/ LENGTH: 145
/ TYPE: PRT
/ ORGANISM: Proteus mirabilis
US-09-543-681A-6503

Query Match 51.2%; Score 41; DB 4; Length 145;
Best Local Similarity 53.3%; Pred. No. 6;
Matches 8; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 HPQDGDALTLRTATN 15
DB 29 HPEDIDRVTLRQEAN 43

RESULT 11
US-08-019-870-1
/ Sequence 1, Application US/08019870
/ Patent No. 5336613
/ GENERAL INFORMATION:
/ APPLICANT: NIWA, MINEO
/ APPLICANT: YOSHIMASA, SAITO
/ APPLICANT: SASAKI, HITOSHI
/ TITLE OF INVENTION: A NEW CEPHALOSPORIN C ACYLASE
/ NUMBER OF SEQUENCES: 42
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
/ ADDRESSEE: P.C.
/ STREET: 1755 S. Jefferson Davis Highway, Suite 400
/ CITY: Arlington

STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/019,870
FILING DATE: 19930219
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Oblon, No. 5336613man P.
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 18-791-0
TELEPHONE: (703) 413-3000
TELEFAX: (703) 413-2220
TELEPHONE: (703) 413-3000
TELEFAX: (703) 413-2220
TELEX: 248855 OPAT UR

US-08-019-870-1

Query Match 51.2%; Score 41; DB 1; Length 773;
Best Local Similarity 72.7%; Pred. No. 46;
Matches 8; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 PQDGDALTLRT 12
DB 369 PRDGAALTLRS 379

RESULT 12
US-08-019-870-6
/ Sequence 6, Application US/08019870
/ Patent No. 5336613
/ GENERAL INFORMATION:
/ APPLICANT: NIWA, MINEO
/ APPLICANT: YOSHIMASA, SAITO
/ APPLICANT: SASAKI, HITOSHI
/ APPLICANT: ISHII, YOSHINORI
/ TITLE OF INVENTION: A NEW CEPHALOSPORIN C ACYLASE
/ NUMBER OF SEQUENCES: 42
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
/ ADDRESSEE: P.C.
/ STREET: 1755 S. Jefferson Davis Highway, Suite 400
/ CITY: Arlington
/ STATE: Virginia
/ COUNTRY: U.S.A.
/ ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/019,870
FILING DATE: 19930219
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Oblon, No. 5336613man P.
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 18-791-0
TELEPHONE: (703) 413-3000
TELEFAX: (703) 413-2220
TELEX: 248855 OPAT UR
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; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 773 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-019-870-6

Query Match          51.2%; Score 41; DB 1; Length 773;
Best Local Similarity 72.7%; Pred. No. 46;
Matches 8; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      2 PQDGDALTIRT 12
Db      369 PRDGAALTIRS 379

RESULT 13
US-07-747-901A-3
; Sequence 3, Application US/07747901A
; Patent No. 5192678
; GENERAL INFORMATION:
; APPLICANT: Iwami, Morita
; APPLICANT: Aramori, Ichiro
; APPLICANT: Fukagawa, Masao
; APPLICANT: Isogai, Takao
; APPLICANT: Kojo, Hitoshi
; TITLE OF INVENTION: CEPHALOSPORIN C ACYLASE
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
; ADDRESSEE: P.C.
; STREET: 1755 Jefferson Davis Highway, Fourth Floor
; CITY: Arlington
; STATE: Virginia
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA: US/07747,901A
; FILING DATE: 19910820
; CLASSIFICATION: 435
; NAME: Oblon, No. 5192678man F.
; REGISTRATION NUMBER: 24,618
; REFERENCE/DOCKET NUMBER: 18-709-0
; TELEPHONE: (703)521-4500
; TELEFAX: (703)486-2347
; TELEX: 248855 OPAT UR
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 774 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-07-747-901A-3

Query Match          51.2%; Score 41; DB 1; Length 774;
Best Local Similarity 72.7%; Pred. No. 46;
Matches 8; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      2 PQDGDALTIRT 12
Db      370 PRDGAALTIRS 380

RESULT 14
US-07-935-312-3
; Sequence 3, Application US/07935312
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; Patent No. 5320948
; GENERAL INFORMATION:
; APPLICANT: Iwami, Morita
; APPLICANT: Aramori, Ichiro
; APPLICANT: Fukagawa, Masao
; APPLICANT: Isogai, Takao
; APPLICANT: Kojo, Hitoshi
; TITLE OF INVENTION: CEPHALOSPORIN C ACYLASE
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
; ADDRESSEE: P.C.
; STREET: 1755 Jefferson Davis Highway, Fourth Floor
; CITY: Arlington
; STATE: Virginia
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA: US/07935,312
; FILING DATE: 19920826
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Oblon, No. 5320948man F.
; REGISTRATION NUMBER: 24,618
; REFERENCE/DOCKET NUMBER: 18-769-0 DIV
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)521-4500
; TELEFAX: (703)486-2347
; TELEX: 248855 OPAT UR
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 774 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-07-935-312-3

Query Match          51.2%; Score 41; DB 1; Length 774;
Best Local Similarity 72.7%; Pred. No. 46;
Matches 8; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      2 PQDGDALTIRT 12
Db      370 PRDGAALTIRS 380

RESULT 15
US-08-019-870-3
; Sequence 3, Application US/08019870
; Patent No. 5336613
; GENERAL INFORMATION:
; APPLICANT: NIWA, MINEO
; APPLICANT: YOSHIMASA, SAITO
; APPLICANT: SASAKI, HITOSHI
; APPLICANT: ISHII, YOSHINORI
; TITLE OF INVENTION: A NEW CEPHALOSPORIN C ACYLASE
; NUMBER OF SEQUENCES: 42
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
; ADDRESSEE: P.C.
; STREET: 1755 S. Jefferson Davis Highway, Suite 400
; CITY: Arlington
; STATE: Virginia
; COUNTRY: U.S.A.
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
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; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/019,870
; FILING DATE: 19930219
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Oblon, No. 535613man F.
; REGISTRATION NUMBER: 24,618
; REFERENCE/DOCKET NUMBER: 18-791-0
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 413-3000
; TELEFAX: (703) 413-2220
; TELEX: 248855 OPAT UR
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 774 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
;
US-08-019-870-3

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Query Match      51.2%; Score 41; DB 1; Length 774;
Best Local Similarity 72.7%; Pred. No. 46;
Matches      8; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      2 PQGDALTLRT 12
Db      370 PRGQALTLRS 380

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Search completed: April 19, 2004, 12:38:16
Job time : 15.6939 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:05 ; Search time 68.3163 Seconds
(without alignments)
60.529 Million cell updates/sec

Title: US-09-308-027A-5
Perfect score: 80
Sequence: 1 HPQDGDALTRLTATN 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA.*

- 1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
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- 15: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
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- 18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|----|----------------------|
| 1 | 80 | 100.0 | 15 | 14 | US-10-354-240-44 |
| 2 | 80 | 100.0 | 374 | 10 | US-09-847-208-68 |
| 3 | 59 | 73.8 | 346 | 10 | US-09-847-208-67 |
| 4 | 59 | 73.8 | 367 | 10 | US-09-847-208-109 |
| 5 | 55 | 68.8 | 15 | 14 | US-10-354-240-43 |
| 6 | 54 | 67.5 | 375 | 10 | US-09-847-208-58 |
| 7 | 48 | 60.0 | 15 | 14 | US-10-354-240-45 |
| 8 | 42 | 52.5 | 574 | 14 | US-10-156-761-11937 |
| 9 | 41 | 51.2 | 175 | 12 | US-10-276-774-1565 |
| 10 | 41 | 51.2 | 205 | 12 | US-10-282-122A-67632 |
| 11 | 41 | 51.2 | 534 | 12 | US-10-425-114-39261 |
| 12 | 41 | 51.2 | 542 | 12 | US-10-424-599-244216 |
| 13 | 41 | 51.2 | 545 | 12 | US-10-425-114-38986 |
| 14 | 41 | 51.2 | 1415 | 15 | US-10-120-801-50 |
| 15 | 41 | 51.2 | 2448 | 12 | US-10-210-172-48 |

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|----|------|------|------|----|----------------------|--------------------|
| 16 | 41 | 51.2 | 3217 | 16 | US-10-311-623-8 | Sequence 8, Appl |
| 17 | 41 | 51.2 | 3298 | 12 | US-10-210-172-50 | Sequence 50, Appl |
| 18 | 41 | 51.2 | 3298 | 14 | US-10-160-758-16 | Sequence 16, Appl |
| 19 | 41 | 51.2 | 3298 | 14 | US-10-174-677-8 | Sequence 8, Appl |
| 20 | 41 | 51.2 | 3298 | 15 | US-10-120-801-51 | Sequence 51, Appl |
| 21 | 40.5 | 50.6 | 253 | 12 | US-10-282-122A-57066 | Sequence 57066, A |
| 22 | 40.5 | 50.6 | 266 | 9 | US-09-815-242-10856 | Sequence 10856, A |
| 23 | 40 | 50.0 | 58 | 11 | US-09-864-408A-1484 | Sequence 1484, A |
| 24 | 40 | 50.0 | 348 | 12 | US-10-282-122A-48724 | Sequence 48724, A |
| 25 | 40 | 50.0 | 520 | 12 | US-10-425-114-45308 | Sequence 45308, A |
| 26 | 40 | 50.0 | 947 | 9 | US-09-871-889-1 | Sequence 1, Appl |
| 27 | 40 | 50.0 | 947 | 10 | US-09-981-397A-18 | Sequence 18, Appl |
| 28 | 40 | 50.0 | 947 | 12 | US-10-087-192-888 | Sequence 888, Appl |
| 29 | 40 | 50.0 | 947 | 15 | US-10-394-322A-44 | Sequence 44, Appl |
| 30 | 39 | 48.8 | 169 | 12 | US-10-276-774-1372 | Sequence 1372, Ap |
| 31 | 39 | 48.8 | 269 | 15 | US-10-369-493-9855 | Sequence 9855, Ap |
| 32 | 39 | 48.8 | 353 | 12 | US-10-282-122A-55435 | Sequence 55435, A |
| 33 | 39 | 48.8 | 353 | 12 | US-10-205-331-16 | Sequence 16, Appl |
| 34 | 39 | 48.8 | 545 | 12 | US-10-425-114-39265 | Sequence 39265, A |
| 35 | 39 | 48.8 | 631 | 12 | US-10-282-122A-72489 | Sequence 72489, A |
| 36 | 39 | 48.8 | 806 | 15 | US-10-369-493-19787 | Sequence 19787, A |
| 37 | 38 | 47.5 | 65 | 11 | US-09-864-408A-8784 | Sequence 8784, Ap |
| 38 | 38 | 47.5 | 297 | 15 | US-10-369-493-2669 | Sequence 2669, Ap |
| 39 | 38 | 47.5 | 324 | 14 | US-10-281-024-15 | Sequence 15, Appl |
| 40 | 38 | 47.5 | 356 | 15 | US-10-369-493-6408 | Sequence 6408, Ap |
| 41 | 38 | 47.5 | 623 | 15 | US-10-369-493-19359 | Sequence 19359, A |
| 42 | 37 | 46.2 | 157 | 14 | US-10-156-761-14511 | Sequence 14511, A |
| 43 | 37 | 46.2 | 166 | 14 | US-10-156-761-10840 | Sequence 10840, A |
| 44 | 37 | 46.2 | 215 | 12 | US-10-424-599-236755 | Sequence 236755, A |
| 45 | 37 | 46.2 | 227 | 14 | US-10-291-190-39 | Sequence 39, Appl |

ALIGNMENTS

RESULT 1

US-10-354-240-44

; Sequence 44, Application US/10354240

; Publication No. US20030185847A1

; GENERAL INFORMATION:

; APPLICANT: Sone, Toshio

; APPLICANT: Kume, Akimori

; APPLICANT: Dairiki, Kazuo

; APPLICANT: Iwama, Akiko

; APPLICANT: Kino, Kohsuke

; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease

; FILE REFERENCE: SPO-103DI

; CURRENT APPLICATION NUMBER: US/10/354,240

; PRIOR FILING DATE: 2003-01-29

; PRIOR APPLICATION NUMBER: PCT/JP97/00740

; PRIOR FILING DATE: 1997-03-10

; PRIOR APPLICATION NUMBER: US 09/142,524

; PRIOR FILING DATE: 1998-09-09

; NUMBER OF SEQ ID NOS: 174

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 44

; LENGTH: 15

; TYPE: PRT

; ORGANISM: Cryptomeria japonica

; FEATURE:

; NAME/KEY: MISC FEATURE

; LOCATION: (1)..(15)

; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 30

US-10-354-240-44

Query Match 100.0%; Score 80; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.4e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 HPQDGDALTRLTATN 15

Db 1 HPQDGDALTRLTATN 15

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RESULT 2
US-09-847-208-68
; Sequence 68, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 68
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-68
Query Match      100.0%; Score 80; DB 10; Length 374;
Best Local Similarity 100.0%; Pred. No. 5.9e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 HPQDGDALTTLRTATN 15
Db      167 HPQDGDALTTLRTATN 181

RESULT 3
US-09-847-208-67
; Sequence 67, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 67
; LENGTH: 346
; TYPE: PRT
; ORGANISM: Cupressus arizonica
US-09-847-208-67
Query Match      73.8%; Score 59; DB 10; Length 346;
Best Local Similarity 66.7%; Pred. No. 0.034;
Matches 10; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy      1 HPQDGDALTTLRTATN 15
Db      146 HAQDGDALTMRNVN 160

RESULT 4
US-09-847-208-109
; Sequence 109, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 58
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; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 109
; LENGTH: 367
; TYPE: PRT
; ORGANISM: Juniperus ashei (Ozark white cedar)
US-09-847-208-109
Query Match      73.8%; Score 59; DB 10; Length 367;
Best Local Similarity 66.7%; Pred. No. 0.036;
Matches 10; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy      1 HPQDGDALTTLRTATN 15
Db      167 HAQDGDALTMRNVN 181

RESULT 5
US-10-354-240-43
; Sequence 43, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinoori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Diseases
; FILE REFERENCE: SPO-103DI
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 43
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 29
US-10-354-240-43
Query Match      68.8%; Score 55; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.0048;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 HPQDGDALTTL 10
Db      6 HPQDGDALTTL 15

RESULT 6
US-09-847-208-58
; Sequence 58, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 58
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; LENGTH: 375
; TYPE: PRT
; ORGANISM: Chamaecypris obtusa (Japanese cypress)
US-09-847-208-58

Query Match 67.5%; Score 54; DB 10; Length 375;
Best Local Similarity 60.0%; Pred. No. 0.3;
Matches 9; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 HPQDGDALTLRTATN 15
Db 167 HAQDGDATIRNVTD 181

RESULT 7

US-10-354-240-45

; Sequence 45; Application US/10354240

; Publication No. US20030185847A1

; GENERAL INFORMATION:

; APPLICANT: Sone, Toshio

; APPLICANT: Kume, Akinori

; APPLICANT: Dairiki, Kazuo

; APPLICANT: Iwama, Akiko

; APPLICANT: Kino, Kohsuke

; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease

; FILE REFERENCE: SPO-103D1

; CURRENT APPLICATION NUMBER: US/10/354,240

; PRIOR FILING DATE: 2003-01-29

; PRIOR APPLICATION NUMBER: PCT/JP97/00740

; PRIOR FILING DATE: 1997-03-10

; PRIOR APPLICATION NUMBER: US 09/142,524

; PRIOR FILING DATE: 1998-09-09

; NUMBER OF SEQ ID NOS: 174

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 45

; LENGTH: 15

; TYPE: PRT

; ORGANISM: Cryptosporidia japonica

; FEATURE:

; NAME/KEY: MISC FEATURE

; LOCATION: (1)..(15)

; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 31

US-10-354-240-45

Query Match 60.0%; Score 48; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.088;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 DALTLRTATN 15
Db 1 DALTLRTATN 10

RESULT 8

US-10-156-761-11937

; Sequence 11937; Application US/10156761

; Publication No. US20030119018A1

; GENERAL INFORMATION:

; APPLICANT: OMURA, SATOSHI

; APPLICANT: IKEDA, HARUO

; APPLICANT: ISHIKAWA, JUN

; APPLICANT: HORIKAWA, HIROSHI

; APPLICANT: SHIBA, TADAYOSHI

; APPLICANT: SAKAKI, YOSHIYUKI

; APPLICANT: HATTORI, MASAHIRA

; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES

; FILE REFERENCE: 249-262

; CURRENT APPLICATION NUMBER: US/10/156,761

; PRIOR FILING DATE: 2002-05-29

; PRIOR APPLICATION NUMBER: JP 2001-204089

; PRIOR FILING DATE: 2001-05-30

; PRIOR APPLICATION NUMBER: JP 2001-272697

; PRIOR FILING DATE: 2001-08-02

; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 11937
; LENGTH: 574
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
US-10-156-761-11937

Query Match 52.5%; Score 42; DB 14; Length 574;
Best Local Similarity 75.0%; Pred. No. 71;
Matches 9; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 4 DGDALTLRTATN 15
Db 485 EGAALTLRTATN 496

RESULT 9

US-10-276-774-1665

; Sequence 1665; Application US/10276774

; Publication No. US20040053245A1

; GENERAL INFORMATION:

; APPLICANT: Hyseq, Inc.

; APPLICANT: Tang, Y, Tom et al

; TITLE OF INVENTION: No. US20040053245A1el Nucleic Acids and Polypeptides

; FILE REFERENCE: 21272-030

; CURRENT APPLICATION NUMBER: US/10/276,774

; CURRENT FILING DATE: 2002-11-18

; PRIOR APPLICATION NUMBER: 09/560,875

; PRIOR FILING DATE: 2000-04-27

; PRIOR APPLICATION NUMBER: 09/496,914

; PRIOR FILING DATE: 2000-02-03

; NUMBER OF SEQ ID NOS: 2700

; SOFTWARE: Custom

; SEQ ID NO 1665

; LENGTH: 175

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-276-774-1665

Query Match 51.2%; Score 41; DB 12; Length 175;
Best Local Similarity 58.3%; Pred. No. 27;
Matches 7; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 1 HPQDGDALTLRT 12
Db 124 HPQTGEVTTLTQT 135

RESULT 10

US-10-282-122A-67632

; Sequence 67632; Application US/10282122A

; Publication No. US20040029129A1

; GENERAL INFORMATION:

; APPLICANT: Wang, Liangsu

; APPLICANT: Zamudio, Carlos

; APPLICANT: Malone, Cheryl

; APPLICANT: Haselbeck, Robert

; APPLICANT: Ohlsen, Kari

; APPLICANT: Zyskind, Judith

; APPLICANT: Wall, Daniel

; APPLICANT: Trawick, John

; APPLICANT: Carr, Grant

; APPLICANT: Yamamoto, Robert

; APPLICANT: Forsyth, R.

; APPLICANT: Xu, H.

; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms

; FILE REFERENCE: ELITRA.034A

; CURRENT APPLICATION NUMBER: US/10/282,122A

; CURRENT FILING DATE: 2003-02-20

; PRIOR APPLICATION NUMBER: 60/191,078

; PRIOR FILING DATE: 2000-03-21

; PRIOR APPLICATION NUMBER: 60/206,848

; PRIOR FILING DATE: 2000-05-23

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; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 67632
; LENGTH: 205
; TYPE: PRT
; ORGANISM: Pseudomonas putida
; US-10-282-122A-67632

Query Match          51.2%; Score 41; DB 12; Length 205;
Best Local Similarity 77.8%; Pred. No. 33;
Matches 7; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 4 DGDALTRLT 12
Db 176 DGDAMTWT 184

RESULT 11
US-10-425-114-39261
; Sequence 39261, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 39261
; LENGTH: 534
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3051-006-C10_FLI.pep
; US-10-425-114-39261

Query Match          51.2%; Score 41; DB 12; Length 534;
Best Local Similarity 53.8%; Pred. No. 99;
Matches 7; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 HPQDGDALTRLTA 13
Db 41 HPEDGDAPRKTS 53

RESULT 12
US-10-424-599-244216
; Sequence 244216, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: Pena, Carol
; APPLICANT: Guo, Xiaojia
; APPLICANT: Shimkets, Richard
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Spytek, Kimberly
; APPLICANT: Mehrahan, Foad

; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 244216
; LENGTH: 542
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_62554C.1.pep
; US-10-424-599-244216

Query Match          51.2%; Score 41; DB 12; Length 542;
Best Local Similarity 53.8%; Pred. No. 1e+02;
Matches 7; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 HPQDGDALTRLTA 13
Db 49 HPEDGDAPRKTS 61

RESULT 13
US-10-425-114-38986
; Sequence 38986, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 38986
; LENGTH: 545
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: UC-GMROPIC049E02_FLI.pep
; US-10-425-114-38986

Query Match          51.2%; Score 41; DB 12; Length 545;
Best Local Similarity 53.8%; Pred. No. 1e+02;
Matches 7; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 HPQDGDALTRLTA 13
Db 52 HPEDGDAPRKTS 64

RESULT 14
US-10-120-801-50
; Sequence 50, Application US/10120801
; Publication No. US20030203843A1
; GENERAL INFORMATION:
; APPLICANT: Pena, Carol
; APPLICANT: Guo, Xiaojia
; APPLICANT: Shimkets, Richard
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Spytek, Kimberly
; APPLICANT: Mehrahan, Foad
```

; APPLICANT: Topper, James N.
; APPLICANT: Malyankar, Uriel
; APPLICANT: Wasserman, Scott
; APPLICANT: Edinger, Shlomit
; APPLICANT: Smithson, Glennda
; APPLICANT: Gunther, Erik
; APPLICANT: Komuves, Laszlo
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-340
; CURRENT APPLICATION NUMBER: US/10/120,801
; CURRENT FILING DATE: 2002-04-11
; PRIOR APPLICATION NUMBER: 60/285748
; PRIOR FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: 60/286068
; PRIOR FILING DATE: 2001-04-24
; PRIOR APPLICATION NUMBER: 60/286292
; PRIOR FILING DATE: 2001-04-25
; PRIOR APPLICATION NUMBER: 60/288334
; PRIOR FILING DATE: 2001-05-03
; PRIOR APPLICATION NUMBER: 60/291241
; PRIOR FILING DATE: 2001-05-16
; PRIOR APPLICATION NUMBER: 60/322284
; PRIOR FILING DATE: 2001-09-14
; PRIOR APPLICATION NUMBER: 60/285609
; PRIOR FILING DATE: 2001-04-20
; NUMBER OF SEQ ID NOS: 155
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 50
; LENGTH: 1415
; TYPE: PRT
; ORGANISM: human
US-10-120-801-50

Query Match 51.2%; Score 41; DB 15; Length 1415;
Best Local Similarity 58.3%; Pred. No. 3.1e+02;
Matches 7; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

OY 1 HPQDGDALTURT 12
Db 85 HPQTGEVTTLTQT 96

RESULT 15

US-10-210-172-48
; Sequence 48, Application US/10210172
; Publication No. US20040043928A1
; GENERAL INFORMATION:
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Miller, Charles
; APPLICANT: Patturajan, Meera
; APPLICANT: Pena, Carol
; APPLICANT: Rieger, Daniel
; APPLICANT: Shimkets, Richard
; APPLICANT: Zerhusen, Bryan
; APPLICANT: Li, Li
; APPLICANT: Ji, Weizhen
; APPLICANT: Radigaru, Muralidhara
; APPLICANT: Casman, Stacie
; APPLICANT: Voss, Edward
; APPLICANT: Boldog, Ferenc
; APPLICANT: Gorman, Linda
; APPLICANT: Leite, Mario
; APPLICANT: Vernet, Corine
; APPLICANT: Anderson, David
; APPLICANT: Guo, Xiaojia
; APPLICANT: Zhong, Mei
; APPLICANT: Gerlach, Valerie
; APPLICANT: Hjal, Tord
; APPLICANT: Rastelli, Luca
; APPLICANT: Spytek, Kimberly
; APPLICANT: Edinger, Shlomit
; APPLICANT: Ellerman, Karen
; APPLICANT: Malyankar, Uriel

; APPLICANT: MacDougall, John
; APPLICANT: Stone, David
; APPLICANT: Alsobrook II, John
; APPLICANT: Lepley, Denise et al.
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOI
; FILE REFERENCE: 21402-416 A
; CURRENT APPLICATION NUMBER: US/10/210,172
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/309,501
; PRIOR FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: 60/323,994
; PRIOR FILING DATE: 2001-09-21
; PRIOR APPLICATION NUMBER: 60/373,814
; PRIOR FILING DATE: 2002-04-19
; PRIOR APPLICATION NUMBER: 60/310,291
; PRIOR FILING DATE: 2001-08-03
; PRIOR APPLICATION NUMBER: 60/310,951
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/310,544
; PRIOR FILING DATE: 2001-08-07
; PRIOR APPLICATION NUMBER: 60/311,292
; PRIOR FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 60/311,979
; PRIOR FILING DATE: 2001-08-13
; PRIOR APPLICATION NUMBER: 60/313,201
; PRIOR FILING DATE: 2001-08-17
; PRIOR APPLICATION NUMBER: 60/312,892
; PRIOR FILING DATE: 2001-08-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 327
; SOFTWARE: Curaseqdist version 0.1
; SEQ ID NO 48
; LENGTH: 2448
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-210-172-48

Query Match 51.2%; Score 41; DB 12; Length 2448;
Best Local Similarity 58.3%; Pred. No. 5.7e+02;
Matches 7; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

OY 1 HPQDGDALTURT 12
Db 1157 HPQTGEVTTLTQT 1168

Search completed: April 19, 2004, 11:29:27
Job time : 68.3163 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:39 ; Search time 8.81633 Seconds
(without alignments)
52.702 Million cell updates/sec

Title: US-09-308-027A-4
Perfect score: 42
Sequence: 1 FIKRVSNVI 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-Processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA.*
1: /cgn2_6/prodata/2/1aa/5A-COMB.pep.*
2: /cgn2_6/prodata/2/1aa/5B-COMB.pep.*
3: /cgn2_6/prodata/2/1aa/6A-COMB.pep.*
4: /cgn2_6/prodata/2/1aa/6B-COMB.pep.*
5: /cgn2_6/prodata/2/1aa/PCITUS-COMB.pep.*
6: /cgn2_6/prodata/2/1aa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|----------------------|
| 1 | 42 | 100.0 | 20 | 3 | US-08-467-023-36 |
| 2 | 42 | 100.0 | 60 | 3 | US-08-467-023-62 |
| 3 | 42 | 100.0 | 374 | 3 | US-08-467-023-2 |
| 4 | 32 | 76.2 | 20 | 3 | US-08-467-023-37 |
| 5 | 32 | 76.2 | 64 | 4 | US-09-134-001C-3006 |
| 6 | 31 | 73.8 | 109 | 4 | US-09-198-452A-130 |
| 7 | 31 | 73.8 | 528 | 4 | US-09-356-806-8 |
| 8 | 31 | 73.8 | 585 | 4 | US-09-134-000C-5945 |
| 9 | 30 | 71.4 | 103 | 4 | US-09-134-000C-5342 |
| 10 | 30 | 71.4 | 486 | 4 | US-09-252-991A-19571 |
| 11 | 29 | 69.0 | 65 | 4 | US-09-134-001C-4419 |
| 12 | 29 | 69.0 | 109 | 4 | US-09-107-532A-5605 |
| 13 | 29 | 69.0 | 111 | 4 | US-09-775-932-18 |
| 14 | 29 | 69.0 | 144 | 4 | US-09-134-000C-4295 |
| 15 | 29 | 69.0 | 151 | 4 | US-09-328-352-4208 |
| 16 | 29 | 69.0 | 247 | 4 | US-09-328-352-6868 |
| 17 | 29 | 69.0 | 263 | 4 | US-09-328-352-5801 |
| 18 | 29 | 69.0 | 292 | 4 | US-09-543-681A-7272 |
| 19 | 29 | 69.0 | 357 | 1 | US-08-356-405-2 |
| 20 | 29 | 69.0 | 357 | 1 | US-08-031-538-4 |
| 21 | 29 | 69.0 | 420 | 1 | US-07-700-526-1 |
| 22 | 29 | 69.0 | 420 | 5 | PCITUS-03132-1 |
| 23 | 29 | 69.0 | 424 | 2 | US-08-978-182-1 |
| 24 | 29 | 69.0 | 424 | 2 | US-09-205-681-1 |
| 25 | 29 | 69.0 | 496 | 4 | US-09-543-681A-7087 |
| 26 | 29 | 69.0 | 538 | 4 | US-09-328-352-5741 |
| 27 | 29 | 69.0 | 613 | 4 | US-09-328-352-7962 |

Sequence 5439, Ap
Sequence 10764, A
Sequence 6842, Ap
Sequence 19147, A
Sequence 3, Appli
Sequence 1, Appli
Sequence 4379, Ap
Sequence 2, Appli
Sequence 4, Appli
Sequence 25, Appli
Sequence 2, Appli
Sequence 13289, A
Sequence 5308, Ap
Sequence 7267, Ap
Sequence 450, App

ALIGNMENTS

RESULT 1
US-08-467-023-36
; Sequence 36, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang, H.;
; APPLICANT: Yeung, Siu-mei, H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Renillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 36:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal

US-08-467-023-36

Query Match 100.0%; Score 42; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.042; 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0;

QY 1 FIKRVSNVI 9
| | | | |
DB 9 FIKRVSNVI 17

RESULT 2

US-08-467-023-62
; Sequence 62, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 62:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 60 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-62

Query Match 100.0%; Score 42; DB 3; Length 60;
Best Local Similarity 100.0%; Pred. No. 0.13; 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0;

QY 1 FIKRVSNVI 9
| | | | |
DB 49 FIKRVSNVI 57

RESULT 3

US-08-467-023-2

; Sequence 2, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 374 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-467-023-2

Query Match 100.0%; Score 42; DB 3; Length 374;
Best Local Similarity 100.0%; Pred. No. 0.79; 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0;

QY 1 FIKRVSNVI 9
| | | | |
DB 130 FIKRVSNVI 138

RESULT 4

US-08-467-023-37
; Sequence 37, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.

;; TITLE OF INVENTION: Allergenic Proteins And Peptides From
;; TITLE OF INVENTION: Japanese Cedar Pollen
;; NUMBER OF SEQUENCES: 261
;; CORRESPONDENCE ADDRESS:
;; ADDRESS: Immunologic Pharmaceutical Corporation, Inc.
;; STREET: 610 Lincoln St
;; CITY: Waltham
;; STATE: MA
;; COUNTRY: USA
;; ZIP: 02154
;;
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: Patent In Release #1.0, Version #1.25
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/467,023
;; FILING DATE: June 6, 1995
;; CLASSIFICATION: 424
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 08/350,225
;; FILING DATE: December 6, 1994
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Jane E. Remillard
;; REGISTRATION NUMBER: 38,872
;; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (617) 227-7400
;; TELEFAX: (617) 227-5941
;; INFORMATION FOR SEQ ID NO: 37:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 20 amino acids
;; TYPE: amino acid
;; TOPOLOGY: linear
;; MOLECULE TYPE: peptide
;; FRAGMENT TYPE: internal
;;
US-08-467-023-37

Query Match 76.2%; Score 32; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 KEVSNVI 9
Db 1 KRVSNI 7

RESULT 5
US-09-134-001C-3006
; Sequence 3006, Application US/09134001C
; Patent No. 6380370
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
; TITLE OF INVENTION: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: GTC-007
; CURRENT APPLICATION NUMBER: US/09/134,001C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/064,964
; PRIOR FILING DATE: 1997-11-08
; PRIOR APPLICATION NUMBER: US 60/055,779
; PRIOR FILING DATE: 1997-08-14
; NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 3006
; LENGTH: 64
; TYPE: PRT
; ORGANISM: Staphylococcus epidermidis
US-09-134-001C-3006

Query Match 76.2%; Score 32; DB 4; Length 64;
Best Local Similarity 62.5%; Pred. No. 14;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 FIKRVSNV 8
Db 6 FLKRLSNI 13

RESULT 6
US-09-198-452A-130
; Sequence 130, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
; APPLICANT: Griffiths, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention
; TITLE OF INVENTION: and treatment of infection
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 130
; LENGTH: 109
; TYPE: PRT
; ORGANISM: Chlamydia pneumoniae
; FEATURE:
; NAME/KEY: SITE
; LOCATION: 1...109
; OTHER INFORMATION: Xaa-unknown or other
US-09-198-452A-130

Query Match 73.8%; Score 31; DB 4; Length 109;
Best Local Similarity 75.0%; Pred. No. 38;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 FIKRVSNV 8
Db 73 FLKRVSNV 80

RESULT 7
US-09-356-806-8
; Sequence 8, Application US/09356806
; Patent No. 6586175
; GENERAL INFORMATION:
; APPLICANT: Penny, Laura
; APPLICANT: Galvin, Margaret
; APPLICANT: Miller, Andrew
; APPLICANT: Reidy, Michael
; TITLE OF INVENTION: Genotyping Human
; TITLE OF INVENTION: UDP-glucuronosyltransferase 2B4 (UGT2B4), 2B7 (UGT2B7) and
; TITLE OF INVENTION: 2B15 (UGT2B15) Genes
; FILE REFERENCE: SEQ-22PRV2
; CURRENT APPLICATION NUMBER: US/09/356,806
; CURRENT FILING DATE: 1999-07-20
; NUMBER OF SEQ ID NOS: 164
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 8
; LENGTH: 528
; TYPE: PRT
; ORGANISM: H. sapiens
US-09-356-806-8

Query Match 73.8%; Score 31; DB 4; Length 528;
Best Local Similarity 66.7%; Pred. No. 1.8e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FIKRVSNVI 9
Db 207 FIERVKNMI 215

RESULT 8
US-09-134-000C-5945
; Sequence 5945, Application US/09134000C
; Patent No. 6617156

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; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; FILE REFERENCE: 032796-032
; CURRENT APPLICATION NUMBER: US/09/134,000C
; PRIOR FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/055,778
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 6812
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 5945
; LENGTH: 585
; TYPE: PRT
; ORGANISM: Enterococcus faecalis
US-09-134-000C-5945

Query Match      73.8%; Score 31; DB 4; Length 585;
Best Local Similarity 87.5%; Pred. No. 2e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FIKRVSNV 8
   |||||
Db 533 FIKRVSNV 540

RESULT 9
US-09-134-000C-5342
; Sequence 5342, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; FILE REFERENCE: 032796-032
; CURRENT APPLICATION NUMBER: US/09/134,000C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/055,778
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 6812
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 5342
; LENGTH: 103
; TYPE: PRT
; ORGANISM: Enterococcus faecalis
US-09-134-000C-5342

Query Match      71.4%; Score 30; DB 4; Length 103;
Best Local Similarity 55.6%; Pred. No. 57;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 FIKRVSNV 9
   |||||
Db 94 FIERENMI 102

RESULT 10
US-09-252-991A-19571
; Sequence 19571, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 19571
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; LENGTH: 486
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-19571

Query Match      71.4%; Score 30; DB 4; Length 486;
Best Local Similarity 66.7%; Pred. No. 2.7e+02;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 FIKRVSNV 9
   |||||
Db 228 FIERVSHV 236

RESULT 11
US-09-134-001C-4419
; Sequence 4419, Application US/09134001C
; Patent No. 6380370
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
; FILE REFERENCE: GTC-007
; CURRENT APPLICATION NUMBER: US/09/134,001C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/064,964
; PRIOR FILING DATE: 1997-11-08
; PRIOR APPLICATION NUMBER: US 60/055,779
; PRIOR FILING DATE: 1997-08-14
; NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 4419
; LENGTH: 65
; TYPE: PRT
; ORGANISM: Staphylococcus epidermidis
US-09-134-001C-4419

Query Match      69.0%; Score 29; DB 4; Length 65;
Best Local Similarity 62.5%; Pred. No. 57;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FIKRVSNV 8
   |||||
Db 29 YIKESINV 36

RESULT 12
US-09-107-532A-5605
; Sequence 5605, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A. Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; NUMBER OF SEQUENCES: 7310
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,532A
; FILING DATE: 30-Jun-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/085,598
; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 60/051571
```

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; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Arinello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 5605:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 109 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHEICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (B) LOCATION 1...109
; SEQUENCE DESCRIPTION: SEQ ID NO: 5605:
US-09-107-532A-5605

Query Match 59.0%; Score 29; DB 4; Length 109;
Best Local Similarity 62.5%; Pred. No. 95;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FIKRVSNV 8
Db 9 FVKRLNV 16

RESULT 13
US-09-775-932-18
; Sequence 18, Application US/09775932
; Patent No. 6534477
; GENERAL INFORMATION:
; APPLICANT: University of British Columbia
; TITLE OF INVENTION: Production and use of Modified Cystatins
; FILE REFERENCE: 58069
; CURRENT APPLICATION NUMBER: US/09/775,932
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: CA99/00717
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: 60/095,503
; PRIOR FILING DATE: 1998-08-05
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 18
; LENGTH: 111
; TYPE: PRT
; ORGANISM: Cyprinus carpio
US-09-775-932-18

Query Match 69.0%; Score 29; DB 4; Length 111;
Best Local Similarity 55.6%; Pred. No. 97;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 FIKRVSNVI 9
Db 36 FVKRVSKVI 44

RESULT 14
US-09-134-000C-4295
; Sequence 4295, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 032796-032
; CURRENT APPLICATION NUMBER: US/09/134,000C
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; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/055,778
; FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 6812
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4295
; LENGTH: 144
; TYPE: PRT
; ORGANISM: Enterococcus faecalis
US-09-134-000C-4295

Query Match 69.0%; Score 29; DB 4; Length 144;
Best Local Similarity 85.7%; Pred. No. 1.3e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 KRVSNNVI 9
Db 4 KRVSNNLI 10

RESULT 15
US-09-328-352-4208
; Sequence 4208, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; FILE REFERENCE: GTC99-03PA
; CURRENT APPLICATION NUMBER: US/09/328,352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 4208
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Acinetobacter baumannii
US-09-328-352-4208

Query Match 69.0%; Score 29; DB 4; Length 151;
Best Local Similarity 66.7%; Pred. No. 1.3e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FIKRVSNVI 9
Db 46 FIKRVSAVV 54

Search completed: April 19, 2004, 12:38:15
Job time : 9.81633 secs
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:39 ; Search time 14.6939 Seconds
(without alignments)
52.702 Million cell updates/sec

Title: US-09-308-027A-1

Perfect score: 79

Sequence: 1 QNRWKLADCAVGFGS 15

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep.*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep.*
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6: /cgn2_6/ptodata/2/iaa/backfiles.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Query No. | Score | Match | Length | DB ID | Description |
|------------|-----------|-------|-------|--------|-------------------|-------------------|
| 1 | 79 | 100.0 | 20 | 3 | US-08-467-023-27 | Sequence 27, Appl |
| 2 | 79 | 100.0 | 50 | 3 | US-08-467-023-66 | Sequence 66, Appl |
| 3 | 79 | 100.0 | 60 | 3 | US-08-467-023-61 | Sequence 61, Appl |
| 4 | 79 | 100.0 | 367 | 3 | US-08-467-023-95 | Sequence 95, Appl |
| 5 | 79 | 100.0 | 370 | 3 | US-08-467-023-97 | Sequence 97, Appl |
| 6 | 79 | 100.0 | 374 | 3 | US-08-467-023-2 | Sequence 2, Appl |
| 7 | 54 | 68.4 | 33 | 1 | US-08-290-448A-5 | Sequence 5, Appl |
| 8 | 54 | 68.4 | 33 | 1 | US-08-290-448A-5 | Sequence 5, Appl |
| 9 | 54 | 68.4 | 33 | 1 | US-08-175-069A-5 | Sequence 5, Appl |
| 10 | 54 | 68.4 | 33 | 4 | US-08-461-939B-5 | Sequence 5, Appl |
| 11 | 54 | 68.4 | 33 | 4 | US-08-464-000-5 | Sequence 5, Appl |
| 12 | 54 | 68.4 | 48 | 1 | US-08-290-448A-4 | Sequence 4, Appl |
| 13 | 54 | 68.4 | 48 | 1 | US-08-290-448A-7 | Sequence 7, Appl |
| 14 | 54 | 68.4 | 48 | 1 | US-08-290-448A-4 | Sequence 4, Appl |
| 15 | 54 | 68.4 | 48 | 1 | US-08-290-448A-7 | Sequence 7, Appl |
| 16 | 54 | 68.4 | 48 | 1 | US-08-175-069A-4 | Sequence 4, Appl |
| 17 | 54 | 68.4 | 48 | 1 | US-08-175-069A-7 | Sequence 7, Appl |
| 18 | 54 | 68.4 | 48 | 4 | US-08-461-939B-4 | Sequence 4, Appl |
| 19 | 54 | 68.4 | 48 | 4 | US-08-461-939B-7 | Sequence 7, Appl |
| 20 | 54 | 68.4 | 48 | 4 | US-08-464-000-4 | Sequence 4, Appl |
| 21 | 54 | 68.4 | 48 | 4 | US-08-464-000-7 | Sequence 7, Appl |
| 22 | 54 | 68.4 | 387 | 1 | US-08-290-448A-72 | Sequence 72, Appl |
| 23 | 54 | 68.4 | 387 | 1 | US-08-290-448A-72 | Sequence 72, Appl |
| 24 | 54 | 68.4 | 387 | 1 | US-08-175-069A-72 | Sequence 72, Appl |
| 25 | 54 | 68.4 | 387 | 4 | US-08-461-939B-72 | Sequence 72, Appl |
| 26 | 54 | 68.4 | 387 | 4 | US-08-464-000-72 | Sequence 72, Appl |
| 27 | 53 | 67.1 | 20 | 3 | US-08-467-023-28 | Sequence 28, Appl |

| | | | | | | |
|----|----|------|-----|---|-------------------|-------------------|
| 28 | 51 | 64.6 | 388 | 1 | US-08-290-448A-80 | Sequence 80, Appl |
| 29 | 51 | 64.6 | 388 | 1 | US-08-290-448A-80 | Sequence 80, Appl |
| 30 | 51 | 64.6 | 388 | 1 | US-08-175-069A-80 | Sequence 80, Appl |
| 31 | 51 | 64.6 | 388 | 4 | US-08-461-939B-80 | Sequence 80, Appl |
| 32 | 51 | 64.6 | 388 | 4 | US-08-464-000-80 | Sequence 80, Appl |
| 33 | 48 | 60.8 | 33 | 1 | US-08-290-448A-6 | Sequence 6, Appl |
| 34 | 48 | 60.8 | 33 | 1 | US-08-290-448A-6 | Sequence 6, Appl |
| 35 | 48 | 60.8 | 33 | 1 | US-08-175-069A-6 | Sequence 6, Appl |
| 36 | 48 | 60.8 | 33 | 4 | US-08-461-939B-6 | Sequence 6, Appl |
| 37 | 48 | 60.8 | 33 | 4 | US-08-464-000-6 | Sequence 6, Appl |
| 38 | 48 | 60.8 | 383 | 1 | US-08-290-448A-78 | Sequence 78, Appl |
| 39 | 48 | 60.8 | 383 | 1 | US-08-290-448A-78 | Sequence 78, Appl |
| 40 | 48 | 60.8 | 383 | 1 | US-08-175-069A-78 | Sequence 78, Appl |
| 41 | 48 | 60.8 | 383 | 4 | US-08-461-939B-78 | Sequence 78, Appl |
| 42 | 48 | 60.8 | 383 | 4 | US-08-464-000-78 | Sequence 78, Appl |
| 43 | 47 | 59.5 | 391 | 1 | US-08-290-448A-59 | Sequence 59, Appl |
| 44 | 47 | 59.5 | 391 | 1 | US-08-290-448A-59 | Sequence 59, Appl |
| 45 | 47 | 59.5 | 391 | 1 | US-08-175-069A-59 | Sequence 59, Appl |

ALIGNMENTS

RESULT 1
US-08-467-023-27
; Sequence 27, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION NUMBER:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 27:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal

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US-08-467-023-27
Query Match      100.0%; Score 79; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 9.2e-08;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 QNRMKLADCAVGFGS 15
Db      6 QNRMKLADCAVGFGS 20

RESULT 2
US-08-467-023-66
; Sequence 66, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 66:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 50 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
;
US-08-467-023-66
Query Match      100.0%; Score 79; DB 3; Length 50;
Best Local Similarity 100.0%; Pred. No. 2.5e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 QNRMKLADCAVGFGS 15
Db      26 QNRMKLADCAVGFGS 40

RESULT 3
US-08-467-023-95
; Sequence 95, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 95:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 60 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
;
US-08-467-023-95
Query Match      100.0%; Score 79; DB 3; Length 60;
Best Local Similarity 100.0%; Pred. No. 3e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 QNRMKLADCAVGFGS 15
Db      26 QNRMKLADCAVGFGS 40

RESULT 4
US-08-467-023-95
; Sequence 95, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 95:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 60 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
;
US-08-467-023-95
Query Match      100.0%; Score 79; DB 3; Length 60;
Best Local Similarity 100.0%; Pred. No. 3e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 QNRMKLADCAVGFGS 15
Db      26 QNRMKLADCAVGFGS 40
```

```

; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS: 261
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 95:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 367 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-467-023-95
Query Match 100.0%; Score 79; DB 3; Length 367;
Best Local Similarity 100.0%; Pred. No. 2.1e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QNRMKLADCAVGFGS 15
Db 37 QNRMKLADCAVGFGS 51

RESULT 5
US-08-467-023-97
; Sequence 97, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 95:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 367 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-467-023-95
Query Match 100.0%; Score 79; DB 3; Length 367;
Best Local Similarity 100.0%; Pred. No. 2.1e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QNRMKLADCAVGFGS 15
Db 37 QNRMKLADCAVGFGS 51

RESULT 5
US-08-467-023-97
; Sequence 97, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

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; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 97:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 370 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-467-023-97
Query Match 100.0%; Score 79; DB 3; Length 370;
Best Local Similarity 100.0%; Pred. No. 2.1e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QNRMKLADCAVGFGS 15
Db 37 QNRMKLADCAVGFGS 51

RESULT 6
US-08-467-023-2
; Sequence 2, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872

```

REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 374 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-467-023-2

Query Match 100.0%; Score 79; DB 3; Length 374;
Best Local Similarity 100.0%; Pred. No. 2.2e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QNRMKLADCAVGFGS 15
Db 37 QNRMKLADCAVGFGS 51

RESULT 7
US-08-290-448A-5
Sequence 5, Application US/08290448A
Patent No. 5676954
GENERAL INFORMATION:
APPLICANT: Rogers, Bruce
APPLICANT: Klapper, David G.
APPLICANT: Rafnar, Thorunn
APPLICANT: Kuo, Mei-chang
TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
NUMBER OF SEQUENCES: 93
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
STREET: 60 State Street, suite 510
CITY: Boston
STATE: Massachusetts
ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,448A
FILING DATE: August 15, 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/529,951
FILING DATE: May 29, 1990
FILING DATE: March 17, 1989
ATTORNEY/AGENT INFORMATION:
NAME: Amy E. Mandragouras
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: IMI-018CN
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 33 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
US-08-290-448A-5

Query Match 68.4%; Score 54; DB 1; Length 33;
Best Local Similarity 71.4%; Pred. No. 0.0052;
Matches 10; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 QNRMKLADCAVGFG 14

Db 20 ENRKALADCAQGF 33

RESULT 8
US-08-290-448A-5
Sequence 5, Application US/08290448A
Patent No. 5698204
GENERAL INFORMATION:
APPLICANT: Rogers, Bruce
APPLICANT: Klapper, David G.
APPLICANT: Rafnar, Thorunn
APPLICANT: Kuo, Mei-chang
TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
NUMBER OF SEQUENCES: 93
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
STREET: 60 State Street, suite 510
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,448A
FILING DATE: August 15, 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/529,951
FILING DATE: May 29, 1990
APPLICATION NUMBER: US 07/325,365
FILING DATE: March 17, 1989
ATTORNEY/AGENT INFORMATION:
NAME: Amy E. Mandragouras
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: IMI-018CN
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 33 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
US-08-290-448A-5

Query Match 68.4%; Score 54; DB 1; Length 33;
Best Local Similarity 71.4%; Pred. No. 0.0052;
Matches 10; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 QNRMKLADCAVGFG 14
Db 20 ENRKALADCAQGF 33

RESULT 9
US-08-175-069A-5
Sequence 5, Application US/08175069A
Patent No. 5776761
GENERAL INFORMATION:
APPLICANT: Rogers, Bruce
APPLICANT: Klapper, David G.
APPLICANT: Rafnar, Thorunn
APPLICANT: Kuo, Mei-chang
TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
NUMBER OF SEQUENCES: 93
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD, LLP

STREET: 60 State Street
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/175,069A
FILING DATE: December 29, 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/529,951
FILING DATE: May 29, 1990
APPLICATION NUMBER: US 07/325,365
FILING DATE: March 17, 1989
ATTORNEY/AGENT INFORMATION:
NAME: Amy E. Mandragouras
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: IMI-018DV
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 33 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
US-08-175-069A-5

Query Match 58.4%; Score 54; DB 1; Length 33;
Best Local Similarity 71.4%; Pred. No. 0.0052;
Matches 10; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 QNEMKLADCAVGFG 14
Db 20 ENKALADCAQGGF 33

RESULT 10
US-08-461-939B-5
Sequence 5, Application US/08461939B
Patent No. 6335019
GENERAL INFORMATION:
APPLICANT: Rogers, Bruce
APPLICANT: Klapper, David G.
APPLICANT: Rafnar, Thorunn
APPLICANT: Kuo, Mei-Chang
TITLE OF INVENTION: Methods For Treating Sensitivity To A
TITLE OF INVENTION: Protein Allergen Using Peptides Which Include A T Cell Epitope
NUMBER OF SEQUENCES: 93
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD, LLP
STREET: 28 State Street
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/461,939B
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/464,000
FILING DATE: 05-JUN-1995

APPLICATION NUMBER: US 08/290,448
FILING DATE: 15-AUG-1994
APPLICATION NUMBER: US 07/529,951
FILING DATE: 29-MAY-1990
APPLICATION NUMBER: US 07/325,365
FILING DATE: 17-MAR-1989
ATTORNEY/AGENT INFORMATION:
NAME: Amy E. Mandragouras
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: IMI-018CNDV
TELEPHONE: (617)227-7400
TELEFAX: (617)742-4214
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 33 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
US-08-461-939B-5

Query Match 58.4%; Score 54; DB 4; Length 33;
Best Local Similarity 71.4%; Pred. No. 0.0052;
Matches 10; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 QNEMKLADCAVGFG 14
Db 20 ENKALADCAQGGF 33

RESULT 11
US-08-464-000-5
Sequence 5, Application US/08464000
Patent No. 6335020
GENERAL INFORMATION:
APPLICANT: Rogers, Bruce
APPLICANT: Klapper, David G.
APPLICANT: Rafnar, Thorunn
APPLICANT: Kuo, Mei-Chang
TITLE OF INVENTION: Allergenic Peptides from Ragweed Pollen
NUMBER OF SEQUENCES: 93
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD, LLP
STREET: 60 State Street
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/464,000
FILING DATE: 05-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/290,448
FILING DATE: 15-AUG-1994
APPLICATION NUMBER: US 07/529,951
FILING DATE: 29-MAY-1990
APPLICATION NUMBER: US 07/325,365
FILING DATE: 17-MAR-1989
ATTORNEY/AGENT INFORMATION:
NAME: Amy E. Mandragouras
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: IMI-018CN2
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:

LENGTH: 33 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
US-08-464-000-5

Query Match 68.4%; Score 54; DB 4; Length 33;
Best Local Similarity 71.4%; Pred. No. 0.0052; 3; Indels 0; Gaps 0;
Matches 10; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 QNRMKLADCAVGFG 14
Db 20 ENRKALADCAQGGF 33

RESULT 12

US-08-290-448A-4
Sequence 4, Application US/08290448A
Patent No. 5676954
GENERAL INFORMATION:
APPLICANT: Rogers, Bruce
APPLICANT: Klapper, David G.
APPLICANT: Rafnar, Thorunn
APPLICANT: Kuo, Mei-chang
TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
NUMBER OF SEQUENCES: 93
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
STREET: 60 State Street, suite 510
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109-1875

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,448A
FILING DATE: August 15, 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/529,951
FILING DATE: May 29, 1990
FILING DATE: March 17, 1989
ATTORNEY/AGENT INFORMATION:
NAME: Amy E. Mandragouras
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: IMI-018CN
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941

INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 48 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
US-08-290-448A-4

Query Match 68.4%; Score 54; DB 1; Length 48;
Best Local Similarity 71.4%; Pred. No. 0.0079;
Matches 10; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 QNRMKLADCAVGFG 14
Db 20 ENRKALADCAQGGF 33

RESULT 13

US-08-290-448A-7
Sequence 7, Application US/08290448A
Patent No. 5676954
GENERAL INFORMATION:
APPLICANT: Rogers, Bruce
APPLICANT: Klapper, David G.
APPLICANT: Rafnar, Thorunn
APPLICANT: Kuo, Mei-chang
TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
NUMBER OF SEQUENCES: 93
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
STREET: 60 State Street, suite 510
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109-1875

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,448A
FILING DATE: August 15, 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/529,951
FILING DATE: May 29, 1990
FILING DATE: March 17, 1989
ATTORNEY/AGENT INFORMATION:
NAME: Amy E. Mandragouras
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: IMI-018CN
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941

INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 48 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
US-08-290-448A-7

Query Match 68.4%; Score 54; DB 1; Length 48;
Best Local Similarity 71.4%; Pred. No. 0.0079;
Matches 10; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 QNRMKLADCAVGFG 14
Db 20 ENRKALADCAQGGF 33

RESULT 14

US-08-290-448A-4
Sequence 4, Application US/08290448A
Patent No. 5698204
GENERAL INFORMATION:
APPLICANT: Rogers, Bruce
APPLICANT: Klapper, David G.
APPLICANT: Rafnar, Thorunn
APPLICANT: Kuo, Mei-chang
TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
NUMBER OF SEQUENCES: 93
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
STREET: 60 State Street, suite 510
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109-1875

Query Match 68.4%; Score 54; DB 1; Length 48;
Best Local Similarity 71.4%; Pred. No. 0.0079;
Matches 10; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,448A
FILING DATE: August 15, 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/529,951
FILING DATE: May 29, 1990
APPLICATION NUMBER: US 07/325,365
FILING DATE: March 17, 1989
ATTORNEY/AGENT INFORMATION:
NAME: Amy E. Mandragouras
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: IMI-018CN
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 48 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
US-08-290-448A-4

Query Match 68.4%; Score 54; DB 1; Length 48;
Best Local Similarity 71.4%; Pred. No. 0.0079;
Matches 10; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 QNRMKLADCAVGFG 14
Db 20 ENRKALADCAQGF 33

RESULT 15
US-08-290-448A-7
Sequence 7, Application US/08290448A
Patent No. 5698204
GENERAL INFORMATION:
APPLICANT: Rogers, Bruce
APPLICANT: Klapper, David G.
APPLICANT: Rafnar, Thorunn
APPLICANT: Kuo, Mei-chang
TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
NUMBER OF SEQUENCES: 93
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
STREET: 60 State Street, suite 510
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,448A
FILING DATE: August 15, 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/529,951
FILING DATE: May 29, 1990
APPLICATION NUMBER: US 07/325,365
FILING DATE: March 17, 1989
ATTORNEY/AGENT INFORMATION:
NAME: Amy E. Mandragouras
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: IMI-018CN

TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 48 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
US-08-290-448A-7

Query Match 68.4%; Score 54; DB 1; Length 48;
Best Local Similarity 71.4%; Pred. No. 0.0079;
Matches 10; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 QNRMKLADCAVGFG 14
Db 20 ENRKALADCAQGF 33

Search completed: April 19, 2004, 12:38:13
Job time : 14.6939 secs

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OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:05 ; Search time 68.3163 Seconds
(without alignments)
60.529 Million cell updates/sec

Title: US-09-308-027A-1

Perfect score: 79

Sequence: 1 QNRMKLADCAVGFGS 15

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

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17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*
18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
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| 1 | 79 | 100.0 | 15 | 14 | US-10-354-240-18 |
| 2 | 79 | 100.0 | 367 | 10 | US-09-847-208-109 |
| 3 | 79 | 100.0 | 375 | 10 | US-09-847-208-68 |
| 4 | 79 | 100.0 | 375 | 10 | US-09-847-208-58 |
| 5 | 75 | 94.9 | 346 | 10 | US-09-847-208-67 |
| 6 | 66 | 83.5 | 409 | 12 | US-10-424-599-279664 |
| 7 | 62 | 78.5 | 206 | 12 | US-10-424-599-230302 |
| 8 | 61 | 77.2 | 313 | 12 | US-10-424-599-239010 |
| 9 | 61 | 77.2 | 404 | 12 | US-10-424-599-190695 |
| 10 | 59 | 74.7 | 435 | 12 | US-10-424-599-239482 |
| 11 | 58 | 73.4 | 187 | 12 | US-10-424-599-151150 |
| 12 | 57 | 72.2 | 450 | 12 | US-10-424-599-234547 |
| 13 | 55 | 69.6 | 196 | 12 | US-10-424-599-260225 |
| 14 | 54 | 68.4 | 396 | 10 | US-09-847-208-13 |
| 15 | 53 | 67.1 | 15 | 14 | US-10-354-240-17 |

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|----|----|------|-----|----|----------------------|-------------------|
| 16 | 53 | 67.1 | 15 | 14 | US-10-354-240-19 | Sequence 19, Appl |
| 17 | 52 | 65.8 | 378 | 12 | US-10-424-599-149825 | Sequence 149825, |
| 18 | 49 | 62.0 | 191 | 12 | US-10-424-599-155739 | Sequence 155739, |
| 19 | 49 | 62.0 | 256 | 12 | US-10-424-599-213740 | Sequence 213740, |
| 20 | 48 | 60.8 | 392 | 10 | US-09-847-208-16 | Sequence 16, Appl |
| 21 | 47 | 59.5 | 397 | 10 | US-09-847-208-15 | Sequence 15, Appl |
| 22 | 47 | 59.5 | 398 | 10 | US-09-847-208-14 | Sequence 14, Appl |
| 23 | 46 | 58.2 | 397 | 10 | US-09-847-208-17 | Sequence 17, Appl |
| 24 | 45 | 57.0 | 214 | 12 | US-10-424-599-205786 | Sequence 205786, |
| 25 | 44 | 55.7 | 782 | 14 | US-10-124-436-1 | Sequence 1, Appl |
| 26 | 42 | 53.2 | 114 | 12 | US-10-424-599-208748 | Sequence 208748, |
| 27 | 42 | 53.2 | 291 | 15 | US-10-369-493-19645 | Sequence 19645, A |
| 28 | 40 | 50.6 | 107 | 12 | US-10-424-599-226795 | Sequence 226795, |
| 29 | 40 | 50.6 | 177 | 12 | US-10-424-599-226794 | Sequence 226794, |
| 30 | 40 | 50.6 | 443 | 12 | US-10-424-599-162863 | Sequence 162863, |
| 31 | 40 | 50.6 | 496 | 15 | US-10-369-493-20440 | Sequence 20440, A |
| 32 | 39 | 49.4 | 151 | 12 | US-10-424-599-260068 | Sequence 260068, |
| 33 | 39 | 49.4 | 220 | 12 | US-10-282-122A-50136 | Sequence 50136, A |
| 34 | 39 | 49.4 | 246 | 12 | US-10-425-114-70400 | Sequence 70400, A |
| 35 | 39 | 49.4 | 251 | 12 | US-10-425-114-64778 | Sequence 64778, A |
| 36 | 39 | 49.4 | 258 | 14 | US-10-313-852-7 | Sequence 7, Appl |
| 37 | 39 | 49.4 | 258 | 14 | US-10-314-033-7 | Sequence 7, Appl |
| 38 | 39 | 49.4 | 330 | 12 | US-10-282-122A-74263 | Sequence 74263, A |
| 39 | 39 | 49.4 | 487 | 14 | US-10-313-852-14 | Sequence 14, Appl |
| 40 | 39 | 49.4 | 487 | 14 | US-10-314-033-14 | Sequence 14, Appl |
| 41 | 39 | 49.4 | 791 | 12 | US-10-424-599-163666 | Sequence 163666, |
| 42 | 38 | 48.1 | 49 | 14 | US-10-029-386-28259 | Sequence 28259, A |
| 43 | 38 | 48.1 | 75 | 12 | US-10-424-599-241030 | Sequence 241030, |
| 44 | 38 | 48.1 | 125 | 12 | US-10-424-599-213877 | Sequence 213877, |
| 45 | 38 | 48.1 | 174 | 12 | US-10-424-599-197391 | Sequence 197391, |

ALIGNMENTS

RESULT 1
US-10-354-240-18
; Sequence 18, Application US/10354240
; Publication NO. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Daiiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 4
US-10-354-240-18

Query Match 100.0%; Score 79; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 2.6e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QNRMKLADCAVGFGS 15

Db 1 QNRMKLADCAVGFGS 15

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; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 58
; LENGTH: 375
; TYPE: PRT
; ORGANISM: Chamaecyparis obtusa (Japanese cypress)
US-09-847-208-58

Query Match      100.0%; Score 79; DB 10; Length 375;
Best Local Similarity 100.0%; Pred. No. 8.4e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QNRMKLADCAVGFSS 15
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Db 37 QNRMKLADCAVGFSS 51
   |||||

RESULT 5
US-09-847-208-67
; Sequence 67, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 67
; LENGTH: 346
; TYPE: PRT
; ORGANISM: Cupressus arizonica
US-09-847-208-67

Query Match      94.9%; Score 75; DB 10; Length 346;
Best Local Similarity 93.3%; Pred. No. 4e-05;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 QNRMKLADCAVGFSS 15
   |||||
Db 16 QNRMKLADCAVGFSS 30
   |||||

RESULT 6
US-10-424-599-279664
; Sequence 279664, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 279664
; LENGTH: 409
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(409)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_94559C.1.pep

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; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 109
; LENGTH: 367
; TYPE: PRT
; ORGANISM: Juniperus ashei (Ozark white cedar)
US-09-847-208-109

Query Match      100.0%; Score 79; DB 10; Length 367;
Best Local Similarity 100.0%; Pred. No. 8.2e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QNRMKLADCAVGFSS 15
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Db 37 QNRMKLADCAVGFSS 51
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RESULT 3
US-09-847-208-68
; Sequence 68, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 68
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-68

Query Match      100.0%; Score 79; DB 10; Length 374;
Best Local Similarity 100.0%; Pred. No. 8.4e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QNRMKLADCAVGFSS 15
   |||||
Db 37 QNRMKLADCAVGFSS 51
   |||||

RESULT 4
US-09-847-208-58
; Sequence 58, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208

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US-10-424-599-279664

Query Match 83.5%; Score 66; DB 12; Length 409;
Best Local Similarity 78.6%; Pred. No. 0.002; Indels 0; Gaps 0;
Matches 11; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 QNRKMLADCAVGFG 14
DB 74 QNRQLADCAIGFG 87

RESULT 7

US-10-424-599-230302
; Sequence 230302, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 230302
; LENGTH: 206
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_49987C.1.1.pep
US-10-424-599-230302

Query Match 78.5%; Score 62; DB 12; Length 206;
Best Local Similarity 71.4%; Pred. No. 0.0049; Indels 0; Gaps 0;
Matches 10; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 QNRKMLADCAVGFG 14
DB 72 QNRQLADCAIGFG 85

RESULT 8

US-10-424-599-239010
; Sequence 239010, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 239010
; LENGTH: 313
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_57851C.1.1.pep
US-10-424-599-239010

Query Match 77.2%; Score 61; DB 12; Length 313;
Best Local Similarity 76.9%; Pred. No. 0.012; Indels 0; Gaps 0;
Matches 10; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 QNRKMLADCAVGFG 14
DB 85 QNRQLADCAIGFG 97

RESULT 9

US-10-424-599-190695
; Sequence 190695, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 190695
; LENGTH: 404
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_143217C.1.1.pep
US-10-424-599-190695

Query Match 77.2%; Score 61; DB 12; Length 404;
Best Local Similarity 76.9%; Pred. No. 0.015; Indels 0; Gaps 0;
Matches 10; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 QNRKMLADCAVGFG 14
DB 71 QNRQLADCAIGFG 83

RESULT 10

US-10-424-599-239482
; Sequence 239482, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 239482
; LENGTH: 435
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(435)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_58278C.1.1.pep
US-10-424-599-239482

Query Match 74.7%; Score 59; DB 12; Length 435;
Best Local Similarity 71.4%; Pred. No. 0.038; Indels 0; Gaps 0;
Matches 10; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 QNRKMLADCAVGFG 14
DB 103 QNRQLADCAIGFG 116

RESULT 11

US-10-424-599-151150
; Sequence 151150, Application US/10424599

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; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 151150
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(187)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_107511C.1.pep
US-10-424-599-151150

Query Match 73.4%; Score 58; DB 12; Length 187;
Best Local Similarity 64.3%; Pred. No. 0.023; 1; Indels 0; Gaps 0;
Matches 9; Conservative 4; Mismatches 0;

QY 1 QNRMKLADCAVGFG 14
Db 123 KNRKRLADCSIGFG 136

RESULT 12
US-10-424-599-234547
; Sequence 234547, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 234547
; LENGTH: 450
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_53823C.1.pep
US-10-424-599-234547

Query Match 72.2%; Score 57; DB 12; Length 450;
Best Local Similarity 64.3%; Pred. No. 0.091; 2; Indels 0; Gaps 0;
Matches 9; Conservative 3; Mismatches 0;

QY 1 QNRMKLADCAVGFG 14
Db 116 RNRKRLADCSIGFG 129

RESULT 13
US-10-424-599-260225
; Sequence 260225, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 260225
; LENGTH: 196
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_77006C.1.pep
US-10-424-599-260225

Query Match 69.6%; Score 55; DB 12; Length 196;
Best Local Similarity 76.9%; Pred. No. 0.084; 3; Indels 0; Gaps 0;
Matches 10; Conservative 0; Mismatches 0;

QY 2 NRMKRLADCAVGFG 14
Db 116 NRKRLADCAVGFG 128

RESULT 14
US-09-847-208-13
; Sequence 13, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; FILE REFERENCE: UG67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 396
; TYPE: PRT
; ORGANISM: Ambrosia artemisiifolia (Short ragweed)
US-09-847-208-13

Query Match 68.4%; Score 54; DB 10; Length 396;
Best Local Similarity 71.4%; Pred. No. 0.27; 3; Indels 0; Gaps 0;
Matches 10; Conservative 1; Mismatches 3;

QY 1 QNRMKLADCAVGFG 14
Db 62 ENRKALADCAQGF 75

RESULT 15
US-10-354-240-17
; Sequence 17, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akimori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JEP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
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; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 260225
; LENGTH: 196
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_77006C.1.pep
US-10-424-599-260225

Query Match 69.6%; Score 55; DB 12; Length 196;
Best Local Similarity 76.9%; Pred. No. 0.084; 3; Indels 0; Gaps 0;
Matches 10; Conservative 0; Mismatches 0;

QY 2 NRMKRLADCAVGFG 14
Db 116 NRKRLADCAVGFG 128

RESULT 14
US-09-847-208-13
; Sequence 13, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; FILE REFERENCE: UG67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 396
; TYPE: PRT
; ORGANISM: Ambrosia artemisiifolia (Short ragweed)
US-09-847-208-13

Query Match 68.4%; Score 54; DB 10; Length 396;
Best Local Similarity 71.4%; Pred. No. 0.27; 3; Indels 0; Gaps 0;
Matches 10; Conservative 1; Mismatches 3;

QY 1 QNRMKLADCAVGFG 14
Db 62 ENRKALADCAQGF 75

RESULT 15
US-10-354-240-17
; Sequence 17, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akimori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JEP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
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; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 17
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 3
US-10-354-240-17

Query Match      67.1%; Score 53; DB 14; Length 15;
Best Local Similarity 100.0%; Pred.No. 0.012;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 QNRMKLADCA 10
        |||||
Db       6 QNRMKLADCA 15

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Search completed: April 19, 2004, 11:29:26
Job time : 68.3163 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:05 ; Search time 68.3163 Seconds
(without alignments)
60.529 Million cell updates/sec

Title: US-09-308-027A-2

Perfect score: 83

Sequence: 1 GATDRPLWIFSGN 15

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:

- 1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|----|----------------------|
| 1 | 83 | 100.0 | 15 | 14 | US-10-354-240-27 |
| 2 | 83 | 100.0 | 374 | 10 | US-03-847-208-58 |
| 3 | 63 | 75.9 | 375 | 10 | US-03-847-208-58 |
| 4 | 63 | 75.9 | 397 | 10 | US-03-847-208-17 |
| 5 | 60 | 72.3 | 346 | 10 | US-03-847-208-67 |
| 6 | 60 | 72.3 | 367 | 10 | US-03-847-208-109 |
| 7 | 57 | 68.7 | 15 | 14 | US-10-354-240-26 |
| 8 | 57 | 68.7 | 15 | 14 | US-10-354-240-28 |
| 9 | 57 | 68.7 | 134 | 14 | US-10-354-240-3 |
| 10 | 54 | 65.1 | 392 | 10 | US-03-847-208-16 |
| 11 | 53 | 63.9 | 396 | 10 | US-03-847-208-13 |
| 12 | 51 | 61.4 | 196 | 12 | US-10-424-599-260225 |
| 13 | 51 | 61.4 | 398 | 10 | US-03-847-208-14 |
| 14 | 50 | 60.2 | 497 | 14 | US-10-156-761-9418 |
| 15 | 48 | 57.8 | 397 | 10 | US-03-847-208-15 |

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| 16 | 47 | 56.6 | 214 | 12 | US-10-424-593-205786 | Sequence 205786, |
| 17 | 46 | 56.6 | 450 | 12 | US-10-424-593-234547 | Sequence 234547, |
| 18 | 46 | 55.4 | 404 | 12 | US-10-424-593-150695 | Sequence 150695, |
| 19 | 45 | 54.2 | 84 | 12 | US-10-424-593-258930 | Sequence 258930, |
| 20 | 45 | 54.2 | 525 | 14 | US-10-156-761-15017 | Sequence 15017, A |
| 21 | 45 | 54.2 | 791 | 12 | US-10-282-122A-68615 | Sequence 68615, A |
| 22 | 44 | 53.0 | 187 | 12 | US-10-424-599-151150 | Sequence 151150, |
| 23 | 44 | 53.0 | 191 | 12 | US-10-424-599-155739 | Sequence 155739, |
| 24 | 44 | 53.0 | 200 | 12 | US-10-424-599-206767 | Sequence 206767, |
| 25 | 44 | 53.0 | 206 | 12 | US-10-424-599-230302 | Sequence 230302, |
| 26 | 44 | 53.0 | 256 | 12 | US-10-424-599-213740 | Sequence 213740, |
| 27 | 44 | 53.0 | 378 | 12 | US-10-424-599-149825 | Sequence 149825, |
| 28 | 44 | 53.0 | 409 | 12 | US-10-424-599-279664 | Sequence 279664, |
| 29 | 44 | 53.0 | 600 | 15 | US-10-108-260A-4883 | Sequence 4883, Ap |
| 30 | 44 | 53.0 | 672 | 14 | US-10-156-761-8104 | Sequence 8104, Ap |
| 31 | 44 | 53.0 | 1337 | 15 | US-10-144-194A-40 | Sequence 40, Appl |
| 32 | 42 | 50.6 | 313 | 12 | US-10-424-599-239010 | Sequence 239010, |
| 33 | 42 | 50.6 | 435 | 12 | US-10-424-599-239482 | Sequence 239482, |
| 34 | 42 | 50.6 | 497 | 14 | US-10-156-761-8691 | Sequence 8691, Ap |
| 35 | 42 | 50.6 | 651 | 15 | US-10-369-493-8731 | Sequence 8731, Ap |
| 36 | 41.5 | 50.0 | 181 | 12 | US-10-282-122A-47778 | Sequence 47778, A |
| 37 | 41 | 49.4 | 91 | 9 | US-09-764-860-419 | Sequence 419, App |
| 38 | 41 | 49.4 | 91 | 14 | US-10-074-095-419 | Sequence 419, App |
| 39 | 41 | 49.4 | 91 | 15 | US-10-212-872-419 | Sequence 419, App |
| 40 | 41 | 49.4 | 360 | 14 | US-10-128-714-3521 | Sequence 3521, Ap |
| 41 | 41 | 49.4 | 360 | 14 | US-10-128-714-3521 | Sequence 8521, Ap |
| 42 | 41 | 49.4 | 411 | 12 | US-10-282-122A-59555 | Sequence 59555, A |
| 43 | 41 | 49.4 | 418 | 12 | US-10-282-122A-43285 | Sequence 43285, A |
| 44 | 41 | 49.4 | 2509 | 14 | US-10-237-271-1 | Sequence 1, Appli |
| 45 | 41 | 49.4 | 4498 | 14 | US-10-156-761-9905 | Sequence 9905, Ap |

ALIGNMENTS

RESULT 1

US-10-354-240-27
; Sequence 27, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 27
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 13
US-10-354-240-27

Query Match 100.0%; Score 83; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 5.8e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GATDRPLWIFSGN 15

Db 1 GATDRPLWIFSGN 15


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; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 397
; TYPE: PRT
; ORGANISM: Ambrosia artemisiifolia (Short ragweed)
US-09-847-208-17

Query Match
Best Local Similarity 75.9%; Score 63; DB 10; Length 397;
Matches 11; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GATDRPLWIFSN 12
Db 109 GATDRPLWIFSN 120

RESULT 5
US-09-847-208-67
; Sequence 67, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 67
; LENGTH: 346
; TYPE: PRT
; ORGANISM: Cupressus arizonica
US-09-847-208-67

Query Match
Best Local Similarity 72.3%; Score 60; DB 10; Length 346;
Matches 11; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GATDRPLWIFSN 15
Db 61 GATREKALWIFSN 75

RESULT 6
US-09-847-208-109
; Sequence 109, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 109
; LENGTH: 367
; TYPE: PRT
; ORGANISM: Juniperus ashei (Ozark white cedar)
US-09-847-208-109

Query Match
Best Local Similarity 72.3%; Score 60; DB 10; Length 367;
Matches 11; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

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QY 1 GATRDRLWIIFSGN 15
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Db 82 GATREKALWIIFSGN 96

RESULT 7
US-10-354-240-26
; Sequence 26, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinoori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 26
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)-(15)
; OTHER INFORMATION: CryJ1 peptide, Figure 1, Row 12
US-10-354-240-26

Query Match 68.7%; Score 57; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.012;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GATRDRLWI 10
|||||:|||||
Db 6 GATRDRLWI 15

RESULT 8
US-10-354-240-28
; Sequence 28, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinoori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 28
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)-(15)
; OTHER INFORMATION: CryJ1 peptide, Figure 1, Row 14
US-10-354-240-28

Query Match 68.7%; Score 57; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.012;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 RPLWIIFSGN 15
|||||:|||||
Db 1 RPLWIIFSGN 10

RESULT 9
US-10-354-240-3
; Sequence 3, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinoori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 3
; LENGTH: 134
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
US-10-354-240-3

Query Match 68.7%; Score 57; DB 14; Length 134;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 RPLWIIFSGN 15
|||||:|||||
Db 73 RPLWIIFSGN 82

RESULT 10
US-09-847-208-16
; Sequence 16, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; FILE REFERENCE: US67,002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 392
; TYPE: PRT
; ORGANISM: Ambrosia artemisiifolia (Short ragweed)
US-09-847-208-16

Query Match 65.1%; Score 54; DB 10; Length 392;
Best Local Similarity 69.2%; Pred. No. 0.98;
Matches 9; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 GATRDRLWIIFS 13
|||||:|||||
Db 109 GAAQNRPLWIIFA 121

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; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Ambrosia artemisiifolia (Short ragweed)
US-09-847-208-14

Query Match      61.4%; Score 51; DB 10; Length 398;
Best Local Similarity 64.3%; Pred. No. 3.1;
Matches 9; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY      2 ATRDRPLWIIFSGN 15
DB      111 AAQNRPLWIIFKRN 124

RESULT 14
US-10-156-761-9418
; Sequence 9418, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 9418
; LENGTH: 497
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
US-10-156-761-9418

Query Match      60.2%; Score 50; DB 14; Length 497;
Best Local Similarity 70.0%; Pred. No. 5.7;
Matches 7; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      6 RPLWIIFSGN 15
DB      387 RPLWLLFAGN 396

RESULT 15
US-09-847-208-15
; Sequence 15, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15

US-09-847-208-13
; Sequence 13, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 396
; TYPE: PRT
; ORGANISM: Ambrosia artemisiifolia (Short ragweed)
US-09-847-208-13

Query Match      63.9%; Score 53; DB 10; Length 396;
Best Local Similarity 75.0%; Pred. No. 1.5;
Matches 9; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 CATDRPLWIIF 12
DB      108 GAAQNRPLWIIF 119

RESULT 12
US-10-424-599-260225
; Sequence 260225, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285664
; SEQ ID NO 260225
; LENGTH: 196
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_77006C.1.pep
US-10-424-599-260225

Query Match      61.4%; Score 51; DB 12; Length 196;
Best Local Similarity 81.8%; Pred. No. 1.6;
Matches 9; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      3 TRDRPLWIIFS 13
DB      163 TEDGPLWIIFA 173

RESULT 13
US-09-847-208-14
; Sequence 14, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
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; LENGTH: 397
; TYPE: PRT
; ORGANISM: Ambrosia artemisiifolia (Short ragweed)
US-09-847-208-15

Query Match      57.8%; Score 48; DB 10; Length 397;
Best Local Similarity 57.1%; Pred. No. 9.9;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY      2 ATRDRPLWTIFSGN 15
      | :|:|:|:|:|:|
Db      110 AAQNRPLWIFKND 123

Search completed: April 19, 2004, 11:29:26
Job time : 68.3163 secs
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:05 ; Search time 40.9898 Seconds
(without alignments)
60.529 Million cell updates/sec

Title: US-09-308-027A-4

Perfect score: 42

Sequence: 1 FIKRVSNVI 9

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

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2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
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10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|-------------------|
| 1 | 42 | 100.0 | 9 | 14 | US-10-354-240-7 |
| 2 | 42 | 100.0 | 12 | 14 | US-10-354-240-166 |
| 3 | 42 | 100.0 | 12 | 14 | US-10-354-240-171 |
| 4 | 42 | 100.0 | 13 | 14 | US-10-354-240-13 |
| 5 | 42 | 100.0 | 13 | 14 | US-10-354-240-165 |
| 6 | 42 | 100.0 | 13 | 14 | US-10-354-240-170 |
| 7 | 42 | 100.0 | 13 | 14 | US-10-354-240-174 |
| 8 | 42 | 100.0 | 14 | 14 | US-10-354-240-164 |
| 9 | 42 | 100.0 | 14 | 14 | US-10-354-240-169 |
| 10 | 42 | 100.0 | 15 | 14 | US-10-354-240-36 |
| 11 | 42 | 100.0 | 15 | 14 | US-10-354-240-159 |
| 12 | 42 | 100.0 | 15 | 14 | US-10-354-240-163 |
| 13 | 42 | 100.0 | 31 | 14 | US-10-354-240-4 |
| 14 | 42 | 100.0 | 31 | 14 | US-10-354-240-5 |
| 15 | 42 | 100.0 | 80 | 14 | US-10-354-240-1 |

| | | | | | | |
|----|----|-------|------|----|----------------------|--------------------|
| 16 | 42 | 100.0 | 105 | 14 | US-10-354-240-2 | Sequence 2, Appli |
| 17 | 42 | 100.0 | 134 | 14 | US-10-354-240-3 | Sequence 3, Appli |
| 18 | 42 | 100.0 | 374 | 10 | US-09-847-208-68 | Sequence 68, Appl |
| 19 | 38 | 90.5 | 11 | 14 | US-10-354-240-172 | Sequence 172, App |
| 20 | 36 | 85.7 | 9 | 14 | US-10-354-240-14 | Sequence 14, Appl |
| 21 | 36 | 85.7 | 11 | 14 | US-10-354-240-167 | Sequence 167, Appl |
| 22 | 35 | 83.3 | 204 | 12 | US-10-425-114-59698 | Sequence 59698, A |
| 23 | 34 | 81.0 | 10 | 14 | US-10-354-240-173 | Sequence 173, Appl |
| 24 | 34 | 81.0 | 15 | 14 | US-10-354-240-35 | Sequence 35, Appl |
| 25 | 33 | 78.6 | 145 | 12 | US-10-424-599-153799 | Sequence 153799, |
| 26 | 33 | 78.6 | 1131 | 12 | US-09-892-635A-19 | Sequence 19, Appl |
| 27 | 32 | 76.2 | 10 | 14 | US-10-354-240-168 | Sequence 168, App |
| 28 | 32 | 76.2 | 15 | 14 | US-10-354-240-37 | Sequence 37, Appl |
| 29 | 32 | 76.2 | 39 | 12 | US-10-282-122A-44398 | Sequence 44398, A |
| 30 | 32 | 76.2 | 211 | 12 | US-10-282-122A-74280 | Sequence 74280, A |
| 31 | 32 | 76.2 | 468 | 12 | US-10-282-122A-52259 | Sequence 52259, A |
| 32 | 32 | 76.2 | 482 | 15 | US-10-369-493-1068 | Sequence 1068, Ap |
| 33 | 32 | 76.2 | 484 | 12 | US-10-424-599-230845 | Sequence 230845, |
| 34 | 32 | 76.2 | 600 | 15 | US-10-369-493-3669 | Sequence 3669, Ap |
| 35 | 32 | 76.2 | 684 | 12 | US-10-282-122A-73860 | Sequence 73860, A |
| 36 | 32 | 76.2 | 4097 | 12 | US-10-363-616-415 | Sequence 415, App |
| 37 | 32 | 76.2 | 4128 | 12 | US-10-363-616-416 | Sequence 416, App |
| 38 | 31 | 73.8 | 89 | 12 | US-10-424-599-281149 | Sequence 281149, |
| 39 | 31 | 73.8 | 109 | 12 | US-10-282-122A-54864 | Sequence 54864, A |
| 40 | 31 | 73.8 | 109 | 15 | US-10-289-762-130 | Sequence 130, App |
| 41 | 31 | 73.8 | 506 | 12 | US-10-424-599-146213 | Sequence 146213, |
| 42 | 31 | 73.8 | 528 | 12 | US-10-042-865-145 | Sequence 145, App |
| 43 | 31 | 73.8 | 528 | 12 | US-10-042-865-146 | Sequence 146, App |
| 44 | 31 | 73.8 | 528 | 12 | US-10-042-865-147 | Sequence 147, App |
| 45 | 31 | 73.8 | 528 | 12 | US-10-072-012-503 | Sequence 503, App |

ALIGNMENTS

RESULT 1
US-10-354-240-7
; Sequence 7, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiho
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
US-10-354-240-7
Query Match 100.0%; Score 42; DB 14; Length 9;
Best Local Similarity 100.0%; Pred. No. 1e+06; 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 FIKRVSNVI 9
|||||
Db 1 FIKRVSNVI 9
RESULT 2
US-10-354-240-166
; Sequence 166, Application US/10354240

```

/ Publication No. US20030185847A1
/
/ GENERAL INFORMATION:
/
/ APPLICANT: Sone, Toshio
/ APPLICANT: Kume, Akino
/ APPLICANT: Dairiki, Kazuo
/ APPLICANT: Iwama, Akiko
/ APPLICANT: Kino, Kohsuke
/
/ TITLE OF INVENTION: Peptide-Based Immunoct
/
/ FILE REFERENCE: SPO-103D1
/
/ CURRENT APPLICATION NUMBER: US/10/354,240
/
/ CURRENT FILING DATE: 2003-01-29
/
/ PRIOR APPLICATION NUMBER: PCI/JF97/00740
/
/ PRIOR FILING DATE: 1997-03-10
/
/ PRIOR APPLICATION NUMBER: US 09/142,524
/
/ PRIOR FILING DATE: 1998-09-09
/
/ NUMBER OF SEQ ID NOS: 174
/
/ SOFTWARE: PatentIn version 3.1
/
/ SEQ ID NO 166
/
/ LENGTH: 12
/
/ TYPE: PRT
/
/ ORGANISM: Cryptomeria japonica
/
/ FEATURE:
/
/ NAME/KEY: MISC FEATURE
/
/ OTHER INFORMATION: Figure 15, p22-4.
/
/ US-10-354-240-166

```

```
Query Match      100.0%; Score 42; DB 14; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.056;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 1 FIKRVSNVI 9
Db 1 FIKRVSNVI 9

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RESULT 3
US-10-354-240-171
; Sequence 171, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Toshio
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kousuke
; APPLICANT: Kuroki, Kazuo
; TITLE OF INVENTION: Peptide-Based Im
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/35
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/0
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 171
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; OTHER INFORMATION: Figure 15, p22-9
US-10-354-240-171

```

Query Match 100.0%; Score 42; DB 14; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.056;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FIKRVSNVI 9
db 4 FIKRVSNVI 12

```

/ Publication No. US20030185847A1
/
/ GENERAL INFORMATION:
/
/ APPLICANT: Sone, Toshio
/ APPLICANT: Kume, Akinori
/ APPLICANT: Dairiki, Kazuo
/ APPLICANT: Iwama, Akiho
/ APPLICANT: Kino, Kotsuke
/
/ TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
/
/ FILE REFERENCE: SPO-103D1
/
/ CURRENT APPLICATION NUMBER: US/10/354,240
/
/ CURRENT FILING DATE: 2003-01-29
/
/ PRIOR APPLICATION NUMBER: PCT/JP97/00740
/
/ PRIOR FILING DATE: 1997-03-10
/
/ PRIOR APPLICATION NUMBER: US 09/142,524
/
/ PRIOR FILING DATE: 1998-09-09
/
/ NUMBER OF SEQ ID NOS: 174
/
/ SOFTWARE: PatentIn version 3.1
/
/ SEQ ID NO 166
/
/ LENGTH: 12
/
/ TYPE: PRT
/
/ ORGANISM: Cryptomeria japonica
/
/ FEATURE:
/
/ NAME/KEY: MISC FEATURE
/
/ OTHER INFORMATION: Figure 15, p22-4.
/
/ US-10-354-240-166

```

```
Query Match      100.0%; Score 42; DB 14; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.056;
Matches 9; Conservative 0; Mismatches 0; Indels
```

| Qy | 1 | FIKRVSNVI | 9 |
|----|---|-----------|---|
| | | | |
| Db | 1 | FIKRVSNVI | 9 |

```

RESULT 3
US-10-354-240-171
; Sequence 171, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Koshuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 171
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; OTHER INFORMATION: Figure 15, p22-9.
US-10-354-240-171

```

```
Query Match 100.0%; Score 42; DB 14; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.056;
Matches 9: Conservative 0; Mismatches 0; Indels
```

Qy 1 FIKRVSNVI 9
db 4 FIKRVSNVI 12

```

RESULT 4
US-10-354-240-13
; Sequence 13, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Daiiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
; LENGTH: 13
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
US-10-354-240-13

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```
Query Match      100.0%; Score 42; DB 14; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 1 FIKRVSNVI 9
|||
Db 2 FIKRVSNVI 10

```

RESULT 5
US-10-354-240-165
Sequence 165, Application US/10354240
Publication No. US20030185847A1
GENERAL INFORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
APPLICANT: Dairiki, Kazuo
APPLICANT: Itama, Akiko
APPLICANT: Kino, Kohsuke
TITLE OF INVENTION: Peptide-Based Imm
FILE REFERENCE: SPO-103D1
CURRENT APPLICATION NUMBER: US/10/354
CURRENT FILING DATE: 2003-01-29
PRIOR APPLICATION NUMBER: PCT/JP97/00
PRIOR FILING DATE: 1997-03-10
PRIOR APPLICATION NUMBER: US 09/142,
PRIOR FILING DATE: 1998-09-09
NUMBER OF SEQ ID NOS: 174
SOFTWARE: PatentIn version 3.1
SEQ ID NO 165
LENGTH: 13
TYPE: PRT
ORGANISM: Cryptomeria japonica
FEATURE:
NAME/KEY: MISC_FEATURE
OTHER INFORMATION: Figure 15, p22-3
US-10-354-240-165

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```

Query Match      100.0%; Score 42; DB 14; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.06;
Matches 9: Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 1 FIKRVSNVI 9
Db 2 FIKRVSNVI 10

RESULT 6

US-10-354-240-170
; Sequence 170, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kinno, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103DI
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 170
; LENGTH: 13
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; NAME/KEY: MISC FEATURE
; OTHER INFORMATION: Figure 15, p22-8.
US-10-354-240-170

Query Match 100.0%; Score 42; DB 14; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FIKRVSNVI 9

Db 4 FIKRVSNVI 12

RESULT 7

US-10-354-240-174
; Sequence 174, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kinno, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103DI
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 174
; LENGTH: 13
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; NAME/KEY: MISC FEATURE
; OTHER INFORMATION: Figures 17 and 18.
US-10-354-240-174

Query Match 100.0%; Score 42; DB 14; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FIKRVSNVI 9

|||||

Db

2 FIKRVSNVI 10

RESULT 8

US-10-354-240-164
; Sequence 164, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kinno, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103DI
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 164
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; NAME/KEY: MISC FEATURE
; OTHER INFORMATION: Figure 15, p22-2.
US-10-354-240-164

Query Match 100.0%; Score 42; DB 14; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.065;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FIKRVSNVI 9

|||||

Db 3 FIKRVSNVI 11

RESULT 9

US-10-354-240-169
; Sequence 169, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kinno, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103DI
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 169
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; NAME/KEY: MISC FEATURE
; OTHER INFORMATION: Figure 15, p22-7.
US-10-354-240-169

Query Match 100.0%; Score 42; DB 14; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.065;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FIKRVSNVI 9
| | | | |
Db 4 FIKRVSNVI 12

RESULT 10

US-10-354-240-36
; Sequence 36, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; PRIOR FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 36
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 22
US-10-354-240-36

Query Match 100.0%; Score 42; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.07; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

QY 1 FIKRVSNVI 9
| | | | |
Db 4 FIKRVSNVI 12

RESULT 11

US-10-354-240-159
; Sequence 159, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; PRIOR FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 159
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Figure 7, Row b

US-10-354-240-159

Query Match 100.0%; Score 42; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.07; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

QY 1 FIKRVSNVI 9
| | | | |
Db 4 FIKRVSNVI 12

RESULT 12

US-10-354-240-163
; Sequence 163, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; PRIOR FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 163
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; OTHER INFORMATION: Figure 15, p22-1.
US-10-354-240-163

Query Match 100.0%; Score 42; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.07; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

QY 1 FIKRVSNVI 9
| | | | |
Db 4 FIKRVSNVI 12

RESULT 13

US-10-354-240-4
; Sequence 4, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; PRIOR FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 31
; TYPE: PRT
; ORGANISM: Cryptomeria japonica

US-10-354-240-4

Query Match 100.0%; Score 42; DB 14; Length 31;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FIKRVSNI 9
| | | | |
Db 23 FIKRVSNI 31

RESULT 14

US-10-354-240-5
; Sequence 5, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; PRIOR FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 31
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
US-10-354-240-5

Query Match 100.0%; Score 42; DB 14; Length 31;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FIKRVSNI 9
| | | | |
Db 23 FIKRVSNI 31

RESULT 15

US-10-354-240-1
; Sequence 1, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; PRIOR FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 80
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
US-10-354-240-1

Query Match 100.0%; Score 42; DB 14; Length 80;

Best Local Similarity 100.0%; Pred. No. 0.41;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FIKRVSNI 9
| | | | |
Db 17 FIKRVSNI 25

Search completed: April 19, 2004, 11:29:27
Job time : 40.9898 secs

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OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:39 ; Search time 14.6939 Seconds
(without alignments)
52.702 Million cell updates/sec

Title: US-09-308-027A-3

Perfect score: 80

Sequence: 1 PCVFIKRVSNVIHG 15

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA:*

- 1: /cgn2_6/prodata2/iaa/5A_COMB.pep:*
- 2: /cgn2_6/prodata2/iaa/5B_COMB.pep:*
- 3: /cgn2_6/prodata2/iaa/6A_COMB.pep:*
- 4: /cgn2_6/prodata2/iaa/6B_COMB.pep:*
- 5: /cgn2_6/prodata2/iaa/6C_COMB.pep:*
- 6: /cgn2_6/prodata2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match % | Length | DB ID | Description |
|------------|-------|---------------|--------|-------|----------------------|
| 1 | 80 | 100.0 | 20 | 3 | US-08-467-023-36 |
| 2 | 80 | 100.0 | 60 | 3 | US-08-467-023-62 |
| 3 | 80 | 100.0 | 374 | 3 | US-08-467-023-2 |
| 4 | 61 | 76.2 | 370 | 3 | US-08-467-023-97 |
| 5 | 55 | 68.8 | 367 | 3 | US-08-467-023-95 |
| 6 | 50 | 62.5 | 20 | 3 | US-08-467-023-37 |
| 7 | 41 | 51.2 | 3200 | 2 | US-08-477-451-8 |
| 8 | 39 | 48.8 | 111 | 4 | US-09-134-000C-4011 |
| 9 | 39 | 48.8 | 693 | 4 | US-09-252-991A-24059 |
| 10 | 38 | 47.5 | 91 | 4 | US-09-134-001C-3364 |
| 11 | 38 | 47.5 | 113 | 4 | US-08-198-452A-450 |
| 12 | 38 | 47.5 | 435 | 4 | US-09-134-000C-3644 |
| 13 | 38 | 47.5 | 1149 | 3 | US-08-560-005-5 |
| 14 | 38 | 47.5 | 1149 | 3 | US-09-418-540-5 |
| 15 | 38 | 47.5 | 1149 | 4 | US-09-969-528-5 |
| 16 | 37.5 | 46.9 | 54 | 4 | US-09-621-976-4007 |
| 17 | 37 | 46.2 | 25 | 4 | US-09-084-303B-259 |
| 18 | 37 | 46.2 | 81 | 4 | US-09-084-303B-159 |
| 19 | 36 | 45.0 | 124 | 4 | US-09-328-352-5305 |
| 20 | 36 | 45.0 | 467 | 4 | US-09-134-001C-5301 |
| 21 | 36 | 45.0 | 530 | 4 | US-09-252-991A-23861 |
| 22 | 36 | 45.0 | 921 | 4 | US-09-439-711C-4 |
| 23 | 36 | 45.0 | 922 | 4 | US-09-116-473-4 |
| 24 | 36 | 45.0 | 923 | 3 | US-08-936-135-6 |
| 25 | 36 | 45.0 | 923 | 4 | US-09-439-711C-2 |
| 26 | 36 | 45.0 | 923 | 4 | US-09-439-711C-6 |
| 27 | 36 | 45.0 | 923 | 4 | US-09-563-638-2 |

28 35 43.8 92 4 US-09-252-991A-31783 Sequence 31783, A
29 35 43.8 100 4 US-09-227-357-617 Sequence 617, App
30 35 43.8 282 1 US-07-807-022A-1 Sequence 1, Appli
31 35 43.8 237 4 US-09-489-039A-13516 Sequence 13516, A
32 35 43.8 302 4 US-09-910-505B-8 Sequence 8, Appli
33 35 43.8 312 4 US-09-821-736-5 Sequence 5, Appli
34 35 43.8 367 3 US-08-845-258-20 Sequence 20, Appl
35 35 43.8 367 3 US-08-845-258-49 Sequence 49, Appl
36 35 43.8 367 3 US-08-990-571-20 Sequence 20, Appl
37 35 43.8 367 3 US-08-990-571-49 Sequence 49, Appl
38 35 43.8 367 4 US-08-723-142A-20 Sequence 20, Appl
39 35 43.8 367 4 US-08-723-142A-49 Sequence 49, Appl
40 35 43.8 367 4 US-09-528-784A-49 Sequence 49, Appl
41 35 43.8 367 4 US-09-528-784A-49 Sequence 49, Appl
42 35 43.8 367 4 US-09-569-098A-20 Sequence 20, Appl
43 35 43.8 367 4 US-09-569-098A-49 Sequence 49, Appl
44 35 43.8 613 4 US-09-328-352-7962 Sequence 7962, Ap
45 35 43.8 698 4 US-09-107-532A-5685 Sequence 5685, Ap

ALIGNMENTS

RESULT 1
US-08-467-023-36
; Sequence 36, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA: US/08467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 36:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal

US-08-467-023-36

Query Match 100.0%; Score 80; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.1e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 PCVFIKRVSNVLIHG 15
DB 6 PCVFIKRVSNVLIHG 20

RESULT 2

US-08-467-023-62

Sequence 62, Application US/08467023
Patent No. 6090386

GENERAL INFORMATION:
APPLICANT: Griffith, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From
TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 374 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein

US-08-467-023-2

Query Match 100.0%; Score 80; DB 3; Length 374;
Best Local Similarity 100.0%; Pred. No. 4.2e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 PCVFIKRVSNVLIHG 15
DB 127 PCVFIKRVSNVLIHG 141

RESULT 4

US-08-467-023-97

Sequence 97, Application US/08467023
Patent No. 6090386

GENERAL INFORMATION:
APPLICANT: Griffith, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.

US-08-467-023-36

Query Match 100.0%; Score 80; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.1e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 PCVFIKRVSNVLIHG 15
DB 6 PCVFIKRVSNVLIHG 20

RESULT 2

US-08-467-023-62

Sequence 62, Application US/08467023
Patent No. 6090386

GENERAL INFORMATION:
APPLICANT: Griffith, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From
TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 62:
SEQUENCE CHARACTERISTICS:
LENGTH: 60 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal

US-08-467-023-62

Query Match 100.0%; Score 80; DB 3; Length 60;
Best Local Similarity 100.0%; Pred. No. 6.5e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 PCVFIKRVSNVLIHG 15
DB 46 PCVFIKRVSNVLIHG 60

RESULT 3

```

; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 97:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 370 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-467-023-97

Query Match 76.2%; Score 61; DB 3; Length 370;
Best Local Similarity 60.0%; Pred. No. 0.0083; 0; Indels 0; Gaps 0;
Matches 9; Conservative 6; Mismatches 0;

Qy 1 PCVFIRKRVSNVILHG 15
Db 127 PCLFMKRVSHVILHG 141
||:||||:||||:|

RESULT 5
US-08-467-023-95
; Sequence 95, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 97:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 370 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-467-023-97
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; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 95:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 367 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-467-023-95

Query Match 68.8%; Score 55; DB 3; Length 367;
Best Local Similarity 57.1%; Pred. No. 0.09;
Matches 8; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PCVFIRKRVSNVILHG 14
Db 127 PCLFMKRVSHVILHG 140
||:||||:||||:|

RESULT 6
US-08-467-023-37
; Sequence 37, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 95:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 367 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-467-023-37
```

TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617) 227-7400
 TELEFAX: (617) 227-5941
 INFORMATION FOR SEQ ID NO: 37:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 20 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 FRAGMENT TYPE: internal
 US-08-467-023-37

Query Match 62.5%; Score 50; DB 3; Length 20;
 Best Local Similarity 100.0%; Pred. No. 0.034; 0; Indels
 Matches 10; Conservative 0; Mismatches 0; Gaps 0;

Qy 6 KRVSNNVIHG 15
 |||||
 Db 1 KRVSNNVIHG 10

RESULT 7
 US-08-477-451-8
 ; Sequence 8, Application US/08477451
 ; Patent No. 5928865
 ; GENERAL INFORMATION:
 ; APPLICANT: Covacci, Antonello
 ; TITLE OF INVENTION: Helicobacter Pylori Cagi Region
 ; NUMBER OF SEQUENCES: 46
 ; CORRESPONDENCE ADDRESS:
 ; STREET: 4560 Horton Street
 ; CITY: Emeryville
 ; STATE: CA
 ; COUNTRY: USA
 ; ZIP: 94608-2916
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/477,451
 ; FILING DATE: 07-JUN-1995
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: McClung, Barbara G.
 ; REGISTRATION NUMBER: 33,113
 ; REFERENCE/DOCKET NUMBER: 0335.002
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 510-601-2708
 ; TELEFAX: 510-655-3542
 ; INFORMATION FOR SEQ ID NO: 8:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 3200 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-08-477-451-8

Query Match 51.2%; Score 41; DB 2; Length 3200;
 Best Local Similarity 57.1%; Pred. No. 2.2e+02;
 Matches 8; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

Qy 2 CVFFKRVSNNVIHG 15
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 Db 1271 CVFFKRVSNNVIHG 1284

RESULT 8
 US-09-134-000C-4011
 ; Sequence 4011, Application US/09134000C

Patent No. 6617156
 ; GENERAL INFORMATION:
 ; APPLICANT: Lynn Doucette-Stamm et al
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
 ; FILE REFERENCE: 032796-032
 ; CURRENT APPLICATION NUMBER: US/09/134,000C
 ; CURRENT FILING DATE: 1998-08-13
 ; PRIOR APPLICATION NUMBER: US 60/055,778
 ; PRIOR FILING DATE: 1997-08-15
 ; NUMBER OF SEQ ID NOS: 6812
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 4011
 ; LENGTH: 111
 ; TYPE: PRT
 ; ORGANISM: Enterococcus faecalis
 US-09-134-000C-4011

Query Match 48.8%; Score 39; DB 4; Length 111;
 Best Local Similarity 40.0%; Pred. No. 16;
 Matches 6; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

Qy 1 PCVEIKRVSNNVIHG 15
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 Db 8 PNIILLTRIDNRLHG 22

RESULT 9
 US-09-252-991A-24059
 ; Sequence 24059, Application US/09252991A
 ; Patent No. 6551795
 ; GENERAL INFORMATION:
 ; APPLICANT: Marc J. Rubenfield et al.
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
 ; FILE REFERENCE: 107196.136
 ; CURRENT APPLICATION NUMBER: US/09/252,991A
 ; CURRENT FILING DATE: 1999-02-18
 ; PRIOR APPLICATION NUMBER: US 60/074,788
 ; PRIOR FILING DATE: 1998-02-18
 ; PRIOR APPLICATION NUMBER: US 60/094,190
 ; PRIOR FILING DATE: 1998-07-27
 ; NUMBER OF SEQ ID NOS: 33142
 ; SEQ ID NO 24059
 ; LENGTH: 693
 ; TYPE: PRT
 ; ORGANISM: Pseudomonas aeruginosa
 US-09-252-991A-24059

Query Match 48.8%; Score 39; DB 4; Length 693;
 Best Local Similarity 33.3%; Pred. No. 1e+02;
 Matches 4; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

Qy 4 FIKRVSNNVIHG 15
 |||||
 Db 657 FVARIGGIIVHG 668

RESULT 10
 US-09-134-001C-3364
 ; Sequence 3364, Application US/09134001C
 ; Patent No. 6380370
 ; GENERAL INFORMATION:
 ; APPLICANT: Lynn Doucette-Stamm et al
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
 ; FILE REFERENCE: GTC-007
 ; CURRENT APPLICATION NUMBER: US/09/134,001C
 ; CURRENT FILING DATE: 1998-08-13
 ; PRIOR APPLICATION NUMBER: US 60/064,964
 ; PRIOR FILING DATE: 1997-11-08
 ; PRIOR APPLICATION NUMBER: US 60/055,779
 ; PRIOR FILING DATE: 1997-08-14

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; NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 3364
; LENGTH: 91
; TYPE: PRT
; ORGANISM: Staphylococcus epidermidis
US-09-134-001C-3364

Query Match      47.5%; Score 38; DB 4; Length 91;
Best Local Similarity 46.7%; Pred. No. 19;
Matches 7; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 PCVFIRKVSNNVIHG 15
Db 42 PCYTINKNAVLIHG 56

RESULT 11
US-09-198-452A-450
; Sequence 450, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
; APPLICANT: Griflais, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention
; FILE OF INVENTION: and treatment of infection
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 450
; LENGTH: 113
; TYPE: PRT
; ORGANISM: Chlamydia pneumoniae
US-09-198-452A-450

Query Match      47.5%; Score 38; DB 4; Length 113;
Best Local Similarity 45.5%; Pred. No. 24;
Matches 6; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 4 FIKRVSNNVIHG 14
Db 22 FLKRVSSVLHG 32

RESULT 12
US-09-134-000C-3644
; Sequence 3644, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; FILE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 032796-032
; CURRENT APPLICATION NUMBER: US/09/134,000C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/055,778
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 6812
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 3644
; LENGTH: 435
; TYPE: PRT
; ORGANISM: Enterococcus faecalis
US-09-134-000C-3644

Query Match      47.5%; Score 38; DB 4; Length 435;
Best Local Similarity 40.0%; Pred. No. 96;
Matches 6; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

QY 1 PCVFIRKVSNNVIHG 15
Db 293 PVPFIKKIMKVVVFG 307

RESULT 13
US-08-560-005-5
; Sequence 5, Application US/08560005
; Patent No. 6001354
; GENERAL INFORMATION:
; APPLICANT: Pot, David A.
; APPLICANT: Williams, Lewis T.
; APPLICANT: Jefferson, Anne Bennett
; APPLICANT: Majerus, Philip W.
; TITLE OF INVENTION: No. 6001354el Grb2 Associating Protein and Nucleic
; TITLE OF INVENTION: Acids Encoding Therefor
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Tower, Suite 2000
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/560,005
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Dow, Karen B.
; REGISTRATION NUMBER: 29,684
; REFERENCE/DOCKET NUMBER: 2307K-0624000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-326-2400
; TELEFAX: 415-326-2422
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1149 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: Region
; LOCATION: 1..1149
; OTHER INFORMATION: /note= "51c"
US-08-560-005-5

Query Match      47.5%; Score 38; DB 3; Length 1149;
Best Local Similarity 50.0%; Pred. No. 2.6e+02;
Matches 7; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 PCVFIRKVSNNVIHG 14
Db 48 PCFLYRVSESRTH 61

RESULT 14
US-09-418-540-5
; Sequence 5, Application US/09418540
; Patent No. 6296848
; GENERAL INFORMATION:
; APPLICANT: Pot, David A.
; APPLICANT: Williams, Lewis T.
; APPLICANT: Jefferson, Anne Bennett
; APPLICANT: Majerus, Philip W.
; TITLE OF INVENTION: No. 6296848el Grb2 Associating Protein and Nucleic
; TITLE OF INVENTION: Acids Encoding Therefor
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Tower, Suite 2000
; CITY: San Francisco
```

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STATE: California
COUNTRY: USA
ZIP: 94105
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/419,540
FILING DATE: 14-OCT-1999
CLASSIFICATION:
PRIOR APPLICATION DATA: US 08/560,005
APPLICATION NUMBER: 17-NOV-1995
FILING DATE: 17-NOV-1995
ATTORNEY/AGENT INFORMATION:
NAME: Dow, Karen B.
REGISTRATION NUMBER: 29,684
REFERENCE/DOCKET NUMBER: 2307K-0624000
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 1149 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
NAME/KEY: Region
LOCATION: 1..1149
OTHER INFORMATION: /note= "51c"
US-09-418-540-5

Query Match 47.5%; Score 38; DB 3; Length 1149;
Best Local Similarity 50.0%; Pred. No. 2.6e+02;
Matches 7; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy 1 PCVFIRKVSNNVIH 14
Db 48 PCFLFYRVSESRTH 61

RESULT 15
US-09-969-528-5
Sequence 5, Application US/09969528
Patent No. 6472197
GENERAL INFORMATION:
APPLICANT: Pot, David A.
Jefferson, Anne Bennett
Majerus, Philip W.
TITLE OF INVENTION: No. 6472197el Grb2 Associating Protein and Nucleic
Acids Encoding Therefor
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew
STREET: One Market Plaza, Steuart Tower, Suite 2000
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/969,528
FILING DATE: 01-Oct-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/560,005

FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Dow, Karen B.
REGISTRATION NUMBER: 29,684
REFERENCE/DOCKET NUMBER: 2307K-0624000
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 1149 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
NAME/KEY: Region
LOCATION: 1..1149
OTHER INFORMATION: /note= "51c"
US-09-969-528-5

Query Match 47.5%; Score 38; DB 4; Length 1149;
Best Local Similarity 50.0%; Pred. No. 2.6e+02;
Matches 7; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy 1 PCVFIRKVSNNVIH 14
Db 48 PCFLFYRVSESRTH 61

Search completed: April 19, 2004, 12:38:14
Job time : 15.6939 secs
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:39 ; Search time 14.6939 Seconds
(without alignments)
52.702 Million cell updates/sec

Title: US-09-308-027A-2

Perfect score: 83

Sequence: 1 GATRDRLPLIIIFSGN 15

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- Issued Patents AA:*
- 1: /cgn2_6/prodata/2/iaa/5A_COMB.pep:*
- 2: /cgn2_6/prodata/2/iaa/5B_COMB.pep:*
- 3: /cgn2_6/prodata/2/iaa/6A_COMB.pep:*
- 4: /cgn2_6/prodata/2/iaa/6B_COMB.pep:*
- 5: /cgn2_6/prodata/2/iaa/PCTUS_COMB.pep:*
- 6: /cgn2_6/prodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|-------------------|
| 1 | 83 | 100.0 | 20 | 3 | US-08-467-023-32 |
| 2 | 83 | 100.0 | 60 | 3 | US-08-467-023-62 |
| 3 | 83 | 100.0 | 374 | 3 | US-08-467-023-2 |
| 4 | 63 | 75.9 | 388 | 1 | US-08-290-448A-80 |
| 5 | 63 | 75.9 | 388 | 1 | US-08-290-448A-80 |
| 6 | 63 | 75.9 | 388 | 1 | US-08-175-069A-80 |
| 7 | 63 | 75.9 | 388 | 4 | US-08-461-939B-80 |
| 8 | 63 | 75.9 | 388 | 4 | US-08-464-000-80 |
| 9 | 60 | 72.3 | 367 | 3 | US-08-467-023-95 |
| 10 | 60 | 72.3 | 370 | 3 | US-08-467-023-97 |
| 11 | 57 | 68.7 | 20 | 3 | US-08-467-023-31 |
| 12 | 53 | 63.9 | 383 | 1 | US-08-290-448A-78 |
| 13 | 53 | 63.9 | 383 | 1 | US-08-290-448A-78 |
| 14 | 53 | 63.9 | 383 | 4 | US-08-175-069A-78 |
| 15 | 53 | 63.9 | 383 | 4 | US-08-461-939B-78 |
| 16 | 53 | 63.9 | 383 | 4 | US-08-464-000-78 |
| 17 | 53 | 63.9 | 387 | 1 | US-08-290-448A-72 |
| 18 | 53 | 63.9 | 387 | 1 | US-08-290-448A-72 |
| 19 | 53 | 63.9 | 387 | 4 | US-08-175-069A-72 |
| 20 | 53 | 63.9 | 387 | 4 | US-08-461-939B-72 |
| 21 | 53 | 63.9 | 387 | 4 | US-08-464-000-72 |
| 22 | 51 | 61.4 | 391 | 1 | US-08-290-448A-59 |
| 23 | 51 | 61.4 | 391 | 1 | US-08-290-448A-59 |
| 24 | 51 | 61.4 | 391 | 1 | US-08-175-069A-59 |
| 25 | 51 | 61.4 | 391 | 4 | US-08-461-939B-59 |
| 26 | 51 | 61.4 | 391 | 4 | US-08-464-000-59 |
| 27 | 51 | 61.4 | 398 | 1 | US-08-290-448A-74 |

| | | | | | | |
|----|----|------|------|---|----------------------|-------------------|
| 28 | 51 | 61.4 | 398 | 1 | US-08-290-448A-74 | Sequence 74, Appl |
| 29 | 51 | 61.4 | 398 | 1 | US-08-175-069A-74 | Sequence 74, Appl |
| 30 | 51 | 61.4 | 398 | 4 | US-08-461-939B-74 | Sequence 74, Appl |
| 31 | 51 | 61.4 | 398 | 4 | US-08-464-000-74 | Sequence 74, Appl |
| 32 | 48 | 57.8 | 397 | 1 | US-08-290-448A-76 | Sequence 76, Appl |
| 33 | 48 | 57.8 | 397 | 1 | US-08-290-448A-76 | Sequence 76, Appl |
| 34 | 48 | 57.8 | 397 | 1 | US-08-175-069A-76 | Sequence 76, Appl |
| 35 | 48 | 57.8 | 397 | 4 | US-08-461-939B-76 | Sequence 76, Appl |
| 36 | 48 | 57.8 | 397 | 4 | US-08-464-000-76 | Sequence 76, Appl |
| 37 | 45 | 54.2 | 792 | 4 | US-09-543-681A-6617 | Sequence 6617, Ap |
| 38 | 44 | 53.0 | 3562 | 4 | US-09-679-279-14 | Sequence 14, Appl |
| 39 | 41 | 49.4 | 452 | 4 | US-09-489-039A-12558 | Sequence 12558, A |
| 40 | 41 | 49.4 | 2509 | 1 | US-08-469-005A-10 | Sequence 10, Appl |
| 41 | 41 | 49.4 | 2511 | 3 | US-09-261-907-2 | Sequence 2, Appl |
| 42 | 41 | 49.4 | 4928 | 3 | US-09-036-987A-5 | Sequence 5, Appl |
| 43 | 41 | 49.4 | 4928 | 3 | US-09-370-700-5 | Sequence 5, Appl |
| 44 | 41 | 49.4 | 4928 | 4 | US-09-603-207-5 | Sequence 5, Appl |
| 45 | 40 | 48.2 | 3170 | 3 | US-09-036-987A-4 | Sequence 4, Appl |

ALIGNMENTS

RESULT 1
US-08-467-023-32 Application US/08467023
; Sequence 32, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/087469, 023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 32:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal

US-08-467-023-62

Query Match 100.0%; Score 83; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.8e-08;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GATDRPLWIFSGN 15
Db 1 GATDRPLWIFSGN 15

RESULT 2

US-08-467-023-62

; Sequence 62, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 62:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 60 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal

US-08-467-023-62

Query Match 100.0%; Score 83; DB 3; Length 60;
Best Local Similarity 100.0%; Pred. No. 1.3e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GATDRPLWIFSGN 15
Db 1 GATDRPLWIFSGN 15

RESULT 3

US-08-467-023-2

; Sequence 2, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 374 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein

US-08-467-023-2

Query Match 100.0%; Score 83; DB 3; Length 374;
Best Local Similarity 100.0%; Pred. No. 1.1e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GATDRPLWIFSGN 15
Db 82 GATDRPLWIFSGN 96

RESULT 4

US-08-290-448A-80

; Sequence 80, Application US/08290448A
; Patent No. 5676954
; GENERAL INFORMATION:
; APPLICANT: Rogers, Bruce
; APPLICANT: Klapper, David G.
; APPLICANT: Rafnar, Thorunn
; APPLICANT: Kuo, Mei-chang
; TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street, suite 510

NAME: Amy E. Mandragouras
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: IMI-018CN
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 80:
SEQUENCE CHARACTERISTICS:
LENGTH: 388 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-290-448A-80

Query Match 75.9%; Score 63; DB 1; Length 388;
Best Local Similarity 91.7%; Pred. No. 0.0037;
Matches 11; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 GATDRPLWIIF 12
DB 100 GATDRPLWIIF 111

RESULT 5
US-08-290-448A-80
Sequence 80, Application US/08290448A
Patent No. 5698204
GENERAL INFORMATION:
APPLICANT: Rogers, Bruce
APPLICANT: Klapper, David G.
APPLICANT: Rafnar, Thorunn
APPLICANT: Kuo, Mei-chang
TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
NUMBER OF SEQUENCES: 93
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD, LLP
STREET: 60 State Street
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US 07/529,951
FILING DATE: May 29, 1990
APPLICATION NUMBER: US 07/325,365
FILING DATE: March 17, 1989
ATTORNEY/AGENT INFORMATION:
NAME: Amy E. Mandragouras
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: IMI-018DV
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 80:
SEQUENCE CHARACTERISTICS:
LENGTH: 388 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-290-448A-80

Query Match 75.9%; Score 63; DB 1; Length 388;
Best Local Similarity 91.7%; Pred. No. 0.0037;
Matches 11; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 GATDRPLWIIF 12
DB 100 GATDRPLWIIF 111

RESULT 5
US-08-290-448A-80
Sequence 80, Application US/08290448A
Patent No. 5698204
GENERAL INFORMATION:
APPLICANT: Rogers, Bruce
APPLICANT: Klapper, David G.
APPLICANT: Rafnar, Thorunn
APPLICANT: Kuo, Mei-chang
TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
NUMBER OF SEQUENCES: 93
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
STREET: 60 State Street, suite 510
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,448A
FILING DATE: August 15, 1994
PRIOR APPLICATION NUMBER:
APPLICATION NUMBER: US 07/529,951
FILING DATE: May 29, 1990
APPLICATION NUMBER: US 07/325,365
FILING DATE: March 17, 1989
ATTORNEY/AGENT INFORMATION:

NAME: Amy E. Mandragouras
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: IMI-018CN
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 80:
SEQUENCE CHARACTERISTICS:
LENGTH: 388 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-290-448A-80

Query Match 75.9%; Score 63; DB 1; Length 388;
Best Local Similarity 91.7%; Pred. No. 0.0037;
Matches 11; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 GATDRPLWIIF 12
DB 100 GATDRPLWIIF 111

RESULT 6
US-08-175-069A-80
Sequence 80, Application US/08175069A
Patent No. 5776761
GENERAL INFORMATION:
APPLICANT: Rogers, Bruce
APPLICANT: Klapper, David G.
APPLICANT: Rafnar, Thorunn
APPLICANT: Kuo, Mei-chang
TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
NUMBER OF SEQUENCES: 93
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD, LLP
STREET: 60 State Street
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/175,069A
FILING DATE: December 29, 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/529,951
FILING DATE: May 29, 1990
APPLICATION NUMBER: US 07/325,365
FILING DATE: March 17, 1989
ATTORNEY/AGENT INFORMATION:
NAME: Amy E. Mandragouras
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: IMI-018DV
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 80:
SEQUENCE CHARACTERISTICS:
LENGTH: 388 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-175-069A-80

Query Match 75.9%; Score 63; DB 1; Length 388;
Best Local Similarity 91.7%; Pred. No. 0.0037;
Matches 11; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 GATDRPLWIF 12
|||:|||||
Db 100 GATDRPLWIF 111

RESULT 7

US-08-461-939B-80

; Sequence 80, Application US/08461939B

; Patent No. 6335019

; GENERAL INFORMATION:

; APPLICANT: Rogers, Bruce

; APPLICANT: Klapper, David G.

; APPLICANT: Rafnar, Thorunn

; APPLICANT: Kuo, Mei-Chang

; TITLE OF INVENTION: Methods For Treating Sensitivity To A

; TITLE OF INVENTION: Protein Allergen Using Peptides Which Include A T Cell Epitope

; NUMBER OF SEQUENCES: 93

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: LAHIVE & COCKFIELD, LLP

; STREET: 28 State Street

; CITY: Boston

; STATE: Massachusetts

; COUNTRY: USA

; ZIP: 02109-1875

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/461,939B

; FILING DATE:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/464,000

; FILING DATE: 05-JUN-1995

; APPLICATION NUMBER: US 08/290,448

; FILING DATE: 15-AUG-1994

; APPLICATION NUMBER: US 07/529,951

; FILING DATE: 29-MAY-1990

; APPLICATION NUMBER: US 07/325,365

; FILING DATE: 17-MAR-1989

; ATTORNEY/AGENT INFORMATION:

; NAME: Amy E. Mandragouras

; REGISTRATION NUMBER: 36,207

; REFERENCE/DOCKET NUMBER: IMI-018CNDV

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (617)227-7400

; TELEFAX: (617)742-4214

; INFORMATION FOR SEQ ID NO: 80:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 388 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-08-461-939B-80

Query Match 75.9%; Score 63; DB 4; Length 388;

Best Local Similarity 91.7%; Pred. No. 0.0037;

Matches 11; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 GATDRPLWIF 12

|||:|||||

Db 100 GATDRPLWIF 111

RESULT 8

US-08-464-000-80

; Sequence 80, Application US/08464000

; Patent No. 6335020

; GENERAL INFORMATION:

; APPLICANT: Rogers, Bruce

; APPLICANT: Klapper, David G.

; APPLICANT: Rafnar, Thorunn

; APPLICANT: Kuo, Mei-chang
; TITLE OF INVENTION: Allergenic Peptides from Ragweed Pollen
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD, LLP
; STREET: 60 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.25

; TITLE OF INVENTION: Methods For Treating Sensitivity To A

; TITLE OF INVENTION: Protein Allergen Using Peptides Which Include A T Cell Epitope

; NUMBER OF SEQUENCES: 93

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: LAHIVE & COCKFIELD, LLP

; STREET: 28 State Street

; CITY: Boston

; STATE: Massachusetts

; COUNTRY: USA

; ZIP: 02109-1875

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/464,000

; FILING DATE: 05-JUN-1995

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/290,448

; FILING DATE: 15-AUG-1994

; APPLICATION NUMBER: US 07/529,951

; FILING DATE: 29-MAY-1990

; APPLICATION NUMBER: US 07/325,365

; FILING DATE: 17-MAR-1989

; ATTORNEY/AGENT INFORMATION:

; NAME: Amy E. Mandragouras

; REGISTRATION NUMBER: 36,207

; REFERENCE/DOCKET NUMBER: IMI-018CN2

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (617)227-7400

; TELEFAX: (617)227-5941

; INFORMATION FOR SEQ ID NO: 80:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 388 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-08-464-000-80

Query Match 75.9%; Score 63; DB 4; Length 388;

Best Local Similarity 91.7%; Pred. No. 0.0037;

Matches 11; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 GATDRPLWIF 12

|||:|||||

Db 100 GATDRPLWIF 111

RESULT 9

US-08-467-023-95

; Sequence 95, Application US/08467023

; Patent No. 6090386

; GENERAL INFORMATION:

; APPLICANT: Griffith, Irwin J.;

; APPLICANT: Pollock, Joanne;

; APPLICANT: Bond, Julian F.;

; APPLICANT: Garman, Richard D.;

; APPLICANT: Kuo, Mei-Chang;

; APPLICANT: Yeung, Siu-mei H.;

; APPLICANT: Brauer, Andrew;

; APPLICANT: Exley, Mark A.;

; APPLICANT: Powers, Steven P.;

; TITLE OF INVENTION: Allergenic Proteins And Peptides From

; TITLE OF INVENTION: Japanese Cedar Pollen

; NUMBER OF SEQUENCES: 261

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.

; STREET: 610 Lincoln St

; CITY: Waltham

; STATE: MA

; COUNTRY: USA

; ZIP: 02154

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 95:
SEQUENCE CHARACTERISTICS:
LENGTH: 367 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-467-023-95

Query Match 72.3%; Score 60; DB 3; Length 367;
Best Local Similarity 73.3%; Pred. No. 0.012;
Matches 11; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 GATDRPLWIFSGN 15
|||||:|||||
DB 82 GATREKALWIFSON 96

RESULT 10
US-08-467-023-97
Sequence 97, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffith, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From
TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 31:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal

NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 97:
SEQUENCE CHARACTERISTICS:
LENGTH: 370 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-467-023-97

Query Match 72.3%; Score 60; DB 3; Length 370;
Best Local Similarity 73.3%; Pred. No. 0.012;
Matches 11; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 GATDRPLWIFSGN 15
|||||:|||||
DB 82 GATREKALWIFSON 96

RESULT 11
US-08-467-023-31
Sequence 31, Application US/08467023
Patent No. 6090386
GENERAL INFORMATION:
APPLICANT: Griffith, Irwin J.;
APPLICANT: Pollock, Joanne;
APPLICANT: Bond, Julian F.;
APPLICANT: Garman, Richard D;
APPLICANT: Kuo, Mei-Chang;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From
TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
STREET: 610 Lincoln St
CITY: Waltham
STATE: MA
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,023
FILING DATE: June 6, 1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/350,225
FILING DATE: December 6, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Jane E. Remillard
REGISTRATION NUMBER: 38,872
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 31:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal

US-08-467-023-31

Query Match 68.7%; Score 57; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GATDRPLWI 10
|||
Db 11 GATDRPLWI 20

RESULT 12

US-08-290-448A-78
; Sequence 78, Application US/08290448A
; Patent No. 5676954
; GENERAL INFORMATION:
; APPLICANT: Rogers, Bruce
; APPLICANT: Klapper, David G.
; APPLICANT: Rafnar, Thorunn
; APPLICANT: Kuo, Mei-chang
; TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street, suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875

COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,448A
; FILING DATE: August 15, 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/529,951
; FILING DATE: May 29, 1990
; APPLICATION NUMBER: US 07/325,365
; FILING DATE: March 17, 1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Amy E. Mandragouras
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: IMI-018CN
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 78:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 383 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein

US-08-290-448A-78
Query Match 63.9%; Score 53; DB 1; Length 383;
Best Local Similarity 75.0%; Pred. No. 0.21;
Matches 9; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 GATDRPLWIIF 12
|||
Db 100 GAAQNRPLWIIF 111

RESULT 13

US-08-290-448A-78
; Sequence 78, Application US/08290448A
; Patent No. 5698204
; GENERAL INFORMATION:
; APPLICANT: Rogers, Bruce
; APPLICANT: Klapper, David G.

APPLICANT: Rafnar, Thorunn
APPLICANT: Kuo, Mei-chang
TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
NUMBER OF SEQUENCES: 93
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
STREET: 60 State Street, suite 510
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109-1875

COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,448A
; FILING DATE: August 15, 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/529,951
; FILING DATE: May 29, 1990
; APPLICATION NUMBER: US 07/325,365
; FILING DATE: March 17, 1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Amy E. Mandragouras
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: IMI-018CN
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 78:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 383 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein

US-08-290-448A-78
Query Match 53.9%; Score 53; DB 1; Length 383;
Best Local Similarity 75.0%; Pred. No. 0.21;
Matches 9; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 GATDRPLWIIF 12
|||
Db 100 GAAQNRPLWIIF 111

RESULT 14

US-08-175-069A-78
; Sequence 78, Application US/08175069A
; Patent No. 5776761
; GENERAL INFORMATION:
; APPLICANT: Rogers, Bruce
; APPLICANT: Klapper, David G.
; APPLICANT: Rafnar, Thorunn
; APPLICANT: Kuo, Mei-chang
; TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD, LLP
; STREET: 60 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875

COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/175,069A

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; FILING DATE: December 29, 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/529,951
; FILING DATE: May 29, 1990
; APPLICATION NUMBER: US 07/325,365
; FILING DATE: March 17, 1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Amy E. Mandragouras
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: IMI-018DV
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 78:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 383 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-175-069A-78

Query Match 63.9%; Score 53; DB 1; Length 383;
Best Local Similarity 75.0%; Pred. No. 0.21;
Matches 9; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GATDRPLWIIF 12
Db 100 GAAQNRPLWIIF 111

RESULT 15
US-08-461-939B-78
; Sequence 78, Application US/08461939B
; Patent No. 6335019
; GENERAL INFORMATION:
; APPLICANT: Rogers, Bruce
; APPLICANT: Klapper, David G.
; APPLICANT: Rafnar, Thorunn
; APPLICANT: Kuo, Mei-chang
; TITLE OF INVENTION: Methods For Treating Sensitivity To A
; TITLE OF INVENTION: Protein Allergen Using Peptides Which Include A T Cell Epitope
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD, LLP
; STREET: 28 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/461,939B
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/464,000
; FILING DATE: 05-JUN-1995
; APPLICATION NUMBER: US 08/290,448
; FILING DATE: 15-AUG-1994
; APPLICATION NUMBER: US 07/529,951
; FILING DATE: 29-MAY-1990
; APPLICATION NUMBER: US 07/325,365
; FILING DATE: 17-MAR-1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Amy E. Mandragouras
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: IMI-018CNDV
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)742-4214
```

```
; INFORMATION FOR SEQ ID NO: 78:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 383 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-461-939B-78

Query Match 63.9%; Score 53; DB 4; Length 383;
Best Local Similarity 75.0%; Pred. No. 0.21;
Matches 9; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GATDRPLWIIF 12
Db 100 GAAQNRPLWIIF 111

Search completed: April 19, 2004, 12:38:13
Job time : 14.6939 secs
```

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OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:05 ; Search time 68.3163 Seconds
(without alignments)
60.529 Million cell updates/sec

Title: US-09-308-027A-3

Perfect score: 80

Sequence: 1 PCVFIKRVSNVIHG 15

Scoring table:

BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/2/pubpaa/PTCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubpaa/US05_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/2/pubpaa/PTCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|----|-------------------|
| 1 | 80 | 100.0 | 15 | 14 | US-10-354-240-36 |
| 2 | 80 | 100.0 | 15 | 14 | US-10-354-240-159 |
| 3 | 80 | 100.0 | 15 | 14 | US-10-354-240-163 |
| 4 | 80 | 100.0 | 374 | 10 | US-09-847-208-68 |
| 5 | 74 | 92.5 | 14 | 14 | US-10-354-240-169 |
| 6 | 73 | 91.2 | 14 | 14 | US-10-354-240-164 |
| 7 | 66 | 82.5 | 13 | 14 | US-10-354-240-170 |
| 8 | 64 | 80.0 | 13 | 14 | US-10-354-240-13 |
| 9 | 64 | 80.0 | 13 | 14 | US-10-354-240-165 |
| 10 | 64 | 80.0 | 13 | 14 | US-10-354-240-174 |
| 11 | 64 | 80.0 | 80 | 14 | US-10-354-240-1 |
| 12 | 64 | 80.0 | 105 | 14 | US-10-354-240-2 |
| 13 | 64 | 80.0 | 134 | 14 | US-10-354-240-3 |
| 14 | 62 | 77.5 | 12 | 14 | US-10-354-240-31 |
| 15 | 60 | 75.0 | 12 | 14 | US-10-354-240-166 |

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| 16 | 72.5 | 11 | 14 | US-10-354-240-172 | Sequence 172, App |
| 17 | 72.5 | 375 | 10 | US-09-847-208-58 | Sequence 58, Appl |
| 18 | 71.2 | 206 | 12 | US-10-424-599-230302 | Sequence 230302, |
| 19 | 71.2 | 346 | 10 | US-09-847-208-67 | Sequence 67, Appl |
| 20 | 71.2 | 409 | 12 | US-10-424-599-279664 | Sequence 279664, |
| 21 | 70.0 | 378 | 12 | US-10-424-599-149825 | Sequence 149825, |
| 22 | 68.8 | 367 | 10 | US-09-847-208-109 | Sequence 109, App |
| 23 | 67.5 | 10 | 14 | US-10-354-240-173 | Sequence 173, App |
| 24 | 67.5 | 11 | 14 | US-10-354-240-167 | Sequence 167, App |
| 25 | 67.5 | 15 | 14 | US-10-354-240-35 | Sequence 35, Appl |
| 26 | 62.5 | 10 | 14 | US-10-354-240-168 | Sequence 168, App |
| 27 | 62.5 | 15 | 14 | US-10-354-240-37 | Sequence 37, Appl |
| 28 | 62.5 | 404 | 12 | US-10-424-599-190695 | Sequence 190695, |
| 29 | 61.3 | 128 | 12 | US-10-424-599-224393 | Sequence 224393, |
| 30 | 61.3 | 450 | 12 | US-10-424-599-234547 | Sequence 234547, |
| 31 | 55.0 | 256 | 12 | US-10-424-599-213740 | Sequence 213740, |
| 32 | 55.0 | 313 | 12 | US-10-424-599-239010 | Sequence 239010, |
| 33 | 52.5 | 9 | 14 | US-10-354-240-7 | Sequence 7, Appl |
| 34 | 52.5 | 31 | 14 | US-10-354-240-4 | Sequence 4, Appl |
| 35 | 52.5 | 31 | 14 | US-10-354-240-5 | Sequence 5, Appl |
| 36 | 51.2 | 33 | 14 | US-10-029-386-33618 | Sequence 33618, A |
| 37 | 51.2 | 345 | 12 | US-10-425-114-53141 | Sequence 53141, A |
| 38 | 48.8 | 94 | 12 | US-10-424-599-133795 | Sequence 133795, |
| 39 | 48.8 | 150 | 12 | US-10-425-114-60833 | Sequence 60833, A |
| 40 | 48.8 | 204 | 12 | US-10-425-114-59698 | Sequence 59698, A |
| 41 | 48.8 | 318 | 12 | US-10-377-097-108 | Sequence 108, App |
| 42 | 48.8 | 318 | 12 | US-09-834-490-2 | Sequence 2, Appl |
| 43 | 48.8 | 318 | 14 | US-10-241-220-70 | Sequence 70, App |
| 44 | 48.8 | 318 | 15 | US-10-291-265-331 | Sequence 331, App |
| 45 | 48.8 | 318 | 15 | US-10-291-265-803 | Sequence 803, App |

ALIGNMENTS

RESULT 1
US-10-354-240-36
; Sequence 36, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 36
; LENGTH: 15
; TYPE: PPT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 22
US-10-354-240-36

Query Match 100.0%; Score 80; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 3.2e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PCVFIKRVSNVIHG 15

Db 1 PCVFIKRVSNVIHG 15

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RESULT 2
US-10-354-240-159
; Sequence 159, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 159
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Figure 7, Row b
US-10-354-240-159

Query Match          100.0%; Score 80; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 3.2e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 PCVFIKRVSNVIHG 15
DB 1 PCVFIKRVSNVIHG 15

RESULT 3
US-10-354-240-163
; Sequence 163, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 163
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; OTHER INFORMATION: Figure 15, p22-1.
US-10-354-240-163

Query Match          100.0%; Score 80; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 3.2e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 PCVFIKRVSNVIHG 15
DB 1 PCVFIKRVSNVIHG 15

RESULT 4
US-09-847-208-68
; Sequence 68, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 68
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-68

Query Match          100.0%; Score 80; DB 10; Length 374;
Best Local Similarity 100.0%; Pred. No. 9.9e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 PCVFIKRVSNVIHG 15
DB 127 PCVFIKRVSNVIHG 141

RESULT 5
US-10-354-240-169
; Sequence 169, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 169
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; OTHER INFORMATION: Figure 15, p22-7.
US-10-354-240-169

Query Match          92.5%; Score 74; DB 14; Length 14;
Best Local Similarity 100.0%; Pred. No. 3.3e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 PCVFIKRVSNVIHG 14
DB 1 PCVFIKRVSNVIHG 14
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QY 1 PCVFIKRVSNVIHG 15
DB 1 PCVFIKRVSNVIHG 15

RESULT 4
US-09-847-208-68
; Sequence 68, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 68
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-68

Query Match          100.0%; Score 80; DB 10; Length 374;
Best Local Similarity 100.0%; Pred. No. 9.9e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 PCVFIKRVSNVIHG 15
DB 127 PCVFIKRVSNVIHG 141

RESULT 5
US-10-354-240-169
; Sequence 169, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 169
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; OTHER INFORMATION: Figure 15, p22-7.
US-10-354-240-169

Query Match          92.5%; Score 74; DB 14; Length 14;
Best Local Similarity 100.0%; Pred. No. 3.3e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 PCVFIKRVSNVIHG 14
DB 1 PCVFIKRVSNVIHG 14
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RESULT 6
US-10-354-240-164
; Sequence 164, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; PRIOR FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 164
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; NAME/KEY: MISC FEATURE
; OTHER INFORMATION: Figure 15, p22-2.
US-10-354-240-164

Query Match 91.2%; Score 73; DB 14; Length 14;
Best Local Similarity 100.0%; Pred. No. 5e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 CVFIKRVSNVIIHG 15
| | | | | | | | | | | | | | | |
Db 1 CVFIKRVSNVIIHG 14

RESULT 7
US-10-354-240-170
; Sequence 170, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; PRIOR FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 170
; LENGTH: 13
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; NAME/KEY: MISC FEATURE
; OTHER INFORMATION: Figure 15, p22-8.
US-10-354-240-170

Query Match 82.5%; Score 66; DB 14; Length 13;
Best Local Similarity 100.0%; Pred. No. 7.9e-05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 PCVFIKRVSNVII 13
| | | | | | | | | | | | | | | |

Db 1 PCVFIKRVSNVII 13
RESULT 8
US-10-354-240-13
; Sequence 13, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; PRIOR FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
; LENGTH: 13
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
US-10-354-240-13

Query Match 80.0%; Score 64; DB 14; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.00018;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 VFIKRVSNVIIHG 15
| | | | | | | | | | | | | | | |
Db 1 VFIKRVSNVIIHG 13

RESULT 9
US-10-354-240-165
; Sequence 165, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; PRIOR FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 165
; LENGTH: 13
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; NAME/KEY: MISC FEATURE
; OTHER INFORMATION: Figure 15, p22-3.
US-10-354-240-165

Query Match 80.0%; Score 64; DB 14; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.00018;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 VFIKRVSNVIIHG 15
| | | | | | | | | | | | | | | |

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Db 1 VFIRKVSNNVIHG 13

RESULT 10
US-10-354-240-174
; Sequence 174, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103DI
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 174
; LENGTH: 13
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; NAME/KEY: MISC FEATURE
; OTHER INFORMATION: Figures 17 and 18.
US-10-354-240-174

Query Match 80.0%; Score 64; DB 14; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.00018;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 VFIRKVSNNVIHG 15
|||||

Db 1 VFIRKVSNNVIHG 13

RESULT 11
US-10-354-240-1
; Sequence 1, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103DI
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 80
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
US-10-354-240-1

Query Match 80.0%; Score 64; DB 14; Length 80;
Best Local Similarity 100.0%; Pred. No. 0.0012;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 VFIRKVSNNVIHG 15
|||||

Db 1 VFIRKVSNNVIHG 13

RESULT 12
US-10-354-240-2
; Sequence 2, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103DI
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
US-10-354-240-2

Query Match 80.0%; Score 64; DB 14; Length 105;
Best Local Similarity 100.0%; Pred. No. 0.0017;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 VFIRKVSNNVIHG 15
|||||

Db 16 VFIRKVSNNVIHG 28

RESULT 13
US-10-354-240-3
; Sequence 3, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103DI
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 134
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
US-10-354-240-3

Query Match 80.0%; Score 64; DB 14; Length 134;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 VFIRKVSNNVIHG 15
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Db 16 VFIRKVSNNVIHG 28
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Db 1 FIKRVSNVILHG 12
Search completed: April 19, 2004, 11:29:27
Job time : 69.3163 secs

RESULT 14
US-10-354-240-171
; Sequence 171, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kinno, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 171
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; OTHER INFORMATION: Figure 15, p22-9.
US-10-354-240-171

Query Match 77.5%; Score 62; DB 14; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.00037; Mismatches 0; Indels 0; Gaps 0;
Matches 12; Conservative 0;

QY 1 PCVFIKRVSNVI 12
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DB 1 PCVFIKRVSNVI 12

RESULT 15
US-10-354-240-166
; Sequence 166, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kinno, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 166
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; OTHER INFORMATION: Figure 15, p22-4.
US-10-354-240-166

Query Match 75.0%; Score 60; DB 14; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.00083;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 FIKRVSNVILHG 15
|||